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The CHEMIST AND DRUGGIST

for RETAILER - WHOLESALER - MANUFACTURER

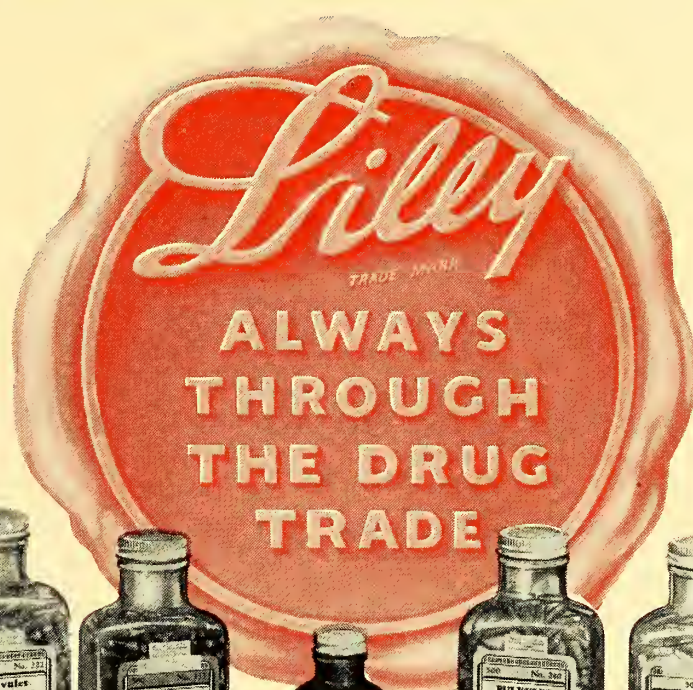
Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 3212
VOL. CXXXV

AUGUST 30, 1941

Annual Subscription (with
Diary) 25/-. Single Copies 9d.

BARBITURIC ACID DERIVATIVES

PROGRESS in the therapeutic field has always been the aim of the Lilly Research Laboratories, and in the case of Barbituric Acid derivatives some notable products have resulted. Judged by criteria of potency, uniformity, stability and purity these products rank high and command the confidence of the medical profession. In keeping with the Lilly Policy, distribution is reserved to the Drug Trade.

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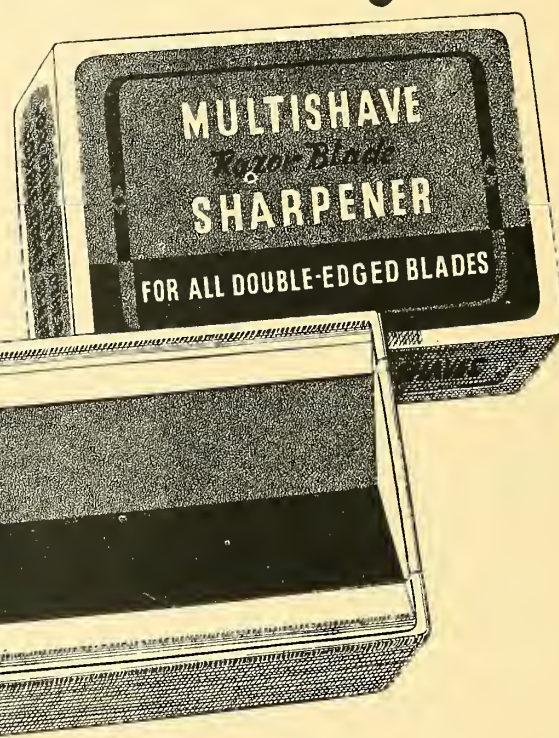
The sharpening agent used in the Multishave is the finest, fastest cutting abrasive known to science. Yet this abrasive grinds so smoothly that any blade can be sharpened many times and still give perfectly smooth, close, comfortable shaves.

The bluntest blade, even if it has been stropped or rubbed on a tumbler or other glass article until it is beyond hope, can be given a new edge in ten seconds with the Multishave.

There are no glass parts to the Multishave—no fear of breakage or accidents. It is ideal for travellers, particularly men in the Forces, and is a thoughtful gift.

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YOU GET FREE OF CHARGE

13 weekly advertisements in your local evening or weekly newspaper, mentioning your name only as Multishave stockists. This advertising sells many Multishaves for you, and brings many new customers and extra profits. Be the first in your district to get the 3 months free advertising

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An important message from 'P & C'

REPEAL OF PATENT MEDICINE STAMP DUTY

On and after 2nd September the following prices will be in operation for the "destamped" lines.



Registered Trade Mark

ARTICLE	Retail Price with P. Tax	Wholesale Price without P. Tax
Potter's Asthma Pills	1/0 $\frac{1}{2}$ each	8/- per doz.
Potter's Asthma Pills	2/6 $\frac{1}{2}$ "	21/- "
Potter's Catarrh Pastilles	1/1 $\frac{1}{2}$ "	8/- "
Blood Purifier, "Irisine"	10 $\frac{1}{2}$ d. "	5/- "
Blood Tonic, Dr. Thompson's	2/10 "	23/- "
Corn Paint, "The Wizard"	10d. "	5/- "
Corn Cure, "The Walker"	1/0 $\frac{1}{2}$ "	5/- "
Corn Cure, "The Walker"	3/0 $\frac{1}{2}$ "	19/- "
Carter's Cough Remover	1/1 "	7/- "
Carter's Cough Remover	2/9 $\frac{1}{2}$ "	21/- "
Potter's Elixir of Herbs	1/1 "	7/- "
Four Dose Cold Cure	1/1 "	8/- "
Liana Cough Balsam	1/1 $\frac{1}{2}$ "	8/- "
Liana Cough Balsam	2/9 $\frac{1}{2}$ "	21/- "
Dutch Drops	9 $\frac{1}{2}$ d. "	4/- "
Dutch Drops, Doublets	1/1 $\frac{1}{2}$ "	9/- "
Hedakene (15 powders)	1/1 $\frac{1}{2}$ "	8/- "
Hedakene (36 powders)	2/6 "	19/- "
Hedakene, loose	1 $\frac{1}{2}$ d. "	8/- "
Influenza and Cold Cure, Skelton's	1/1 $\frac{1}{2}$ "	8/- "
Pulmonary Cough Lozenge, Skelton's	1/1 "	7/6 "
Skin Clear, Dr. Buchanan's	1/1 "	7/- "
Pile Cure, Dr. Frye's	2/5 "	21/- "
Antifat Pills, New Form	10d. "	5/- "
Renal, Gout and Rheumatic Pills	1/1 "	8/- "
Quick Cure, Dr. Thompson's	9d. "	4/6 "
Quick Cure, Dr. Thompson's	1/2 "	7/6 "
Slack's Sure Cure for Rheumatism	10d. "	5/- "
Teething Powders, Dr. Thompson's	6 $\frac{1}{2}$ d. "	4/3 "
Teething Powders, Dr. Thompson's	1/1 $\frac{1}{2}$ "	8/- "
Teething Powders, Dr. Thompson's	2/9 $\frac{1}{2}$ "	21/- "
Tonic and Nervine Essence	1/1 $\frac{1}{2}$ "	8/- "
Tonic and Nervine Essence	2/9 $\frac{1}{2}$ "	21/- "



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FOR USE.

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ENGLAND

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Crookes' Halibut Oil

Standard Bonus Parcels

ALTERATIONS TO BONUS TERMS ARRANGEMENTS

We have pleasure in announcing that in spite of present-day difficulties bonus terms on Crookes' Halibut Oil are still available. These terms, however, will be subject to certain conditions and we ask our customers to take special note of the following:—

1. Bonus in kind will only be allowed on four standard parcels of Halibut Oil (drops and capsules), details of which are shown here. It will be possible to include two or more of the standard parcels in any one order.

2. Every order for these bonus parcels must be accompanied by CASH.

3. Orders for quantities or combinations other than those stated, and orders received without cash, will be executed without bonus in kind.

4. Bonus in kind will not be allowed on other halibut oil products (Halycalcyne, Halidexol, Halibut Ointment). We have been reluctant to change the present conditions under which we do business with our pharmaceutical friends but in view of steadily rising costs, and the fact that our prices to the public have not been raised, we hope that the terms now presented will be regarded as an adequate solution to a very difficult problem.

CROOKES' HALIBUT OIL Standard Bonus Parcels (Drops and Capsules)			
PARCEL	DOZEN	Bonus	Sell
24 x 5 c.c. Drops	2	2/-	
12 x 25 Capsules	1	2/6	
Less 25%			
" 10%			
*Amount of cash with order			
PARCEL B = 3 DOZEN			
18 x 5 c.c. Drops	2	2/-	
18 x 25 Capsules	1	2/6	
Less 25%			
" 10%			
*Amount of cash with order			
PARCEL C = 6 DOZEN			
36 x 5 c.c. Drops	6	2/-	
36 x 25 Capsules	6	2/6	
Less 25%			
" 10%			
*Amount of cash with order			
PARCEL D = 6 DOZEN			
30 x 5 c.c. Drops	5	2/-	
6 x 15 c.c. "	1	5/-	
30 x 25 Capsules	5	2/6	
6 x 100 Capsules	1	8/6	
Less 25%			
" 10%			
*Amount of cash with order			

Crookes

THE CROOKES LABORATORIES (British Colloids Ltd.) LONDON, N.W.10

Telephone: Willesden 6313 (5 lines)

Telegrams: Colloids, Harles, London

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SILATEX A modern sanitary towel that meets every hygienic need. Fully shaped giving the maximum comfort combined with efficiency.

SANTRON A new germicide, combining high antiseptic properties with amazing low toxicity — co-efficient of 5.5 in Rideal-Walker Test, yet non-corrosive and non-irritant. Booklet available.

MENSINOLE A reliable analgesic for use in migraine, neuralgic and muscular aches, and more particularly to relieve the pain associated with menstrual disturbance. Also valuable as an antipyretic in febrile temperature.

RENDELLS new products are prepared to the same high standard which has always been associated with their original and world famous preparation.

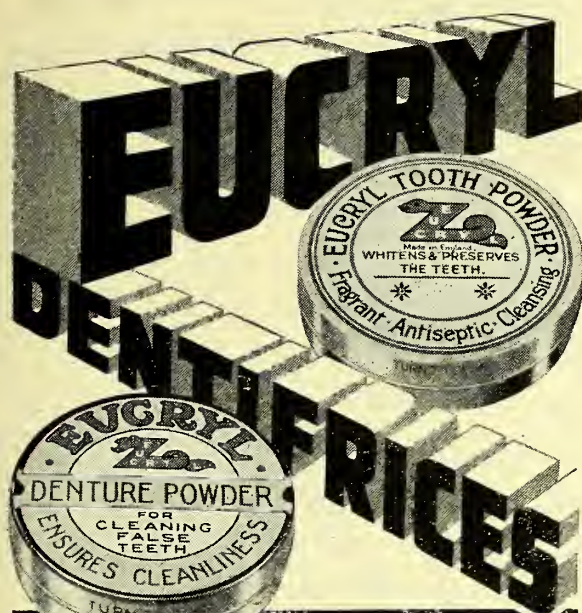


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Given half a chance—nature heals herself. Today, people are applying that truth by taking the greatest of all tonics. They have discovered that Phosferine gives them just the help they need. Phosferine is introducing itself to many, many thousands of new customers, both through the press and by word-of-mouth from one customer to another.

The purpose of this announcement is to remind you to order ahead of your need rather than run the risk of causing disappointment to your customers.

Keep up your stocks of both Liquid and Tablets.

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THE GREATEST OF ALL TONICS

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An Important Development

THE importance of the contribution made by German chemists to Science in general and to Chemo- and Organo- Therapy in particular, more especially during the last half century, is universally recognised.

Foremost among the commercial houses which played an important part in this development was the House of Schering, from whose laboratories in Berlin issued a series of clinically - proven preparations valuable to medical workers.

The announcement therefore, that all the German Schering interests in this country have now been acquired by a British group is of considerable importance.

The new British organisation comprises three companies, viz. : British Schering Ltd., British Schering (Research Laboratories) Ltd. and British Schering (Manufacturing

Laboratories) Ltd., each complementary to the other.

Research will henceforth be developed by British Schering (Research Laboratories) Ltd. of which Dr. D. H. Hey, D.Sc., Ph.D., F.I.C., of the Department of Organic Chemistry, Imperial College of Science and Technology, South Kensington, has been appointed Director.

Existing Schering products will be made by British Schering (Manufacturing Laboratories) Ltd.; the necessary patents having been acquired; preparations hitherto sold in this country will, after present stocks are exhausted, be of British manufacture.

Mr. A. W. Edwards, who has been Managing Director of Schering Ltd. since its inception 16 years ago, continues in the same capacity.

The entire personnel of all three companies is British born and the financial interest is wholly British.

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PILLS • TABLETS • PACKED GOODS



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In some cases, owing to shortage of raw materials or other difficulties, rationing has been necessary. Nevertheless, we appreciate the fact that stocks must be available in the Pharmacy, and so we are doing our best under abnormal conditions to make a fair share of supplies available for all with as little delay as possible.

Transport complications too have presented difficulties, and the fact that many members of our staff are serving with the Forces may mean that in some instances orders are not attended to with our customary promptitude.

May we ask you for your kind and continued co-operation during these difficult times, and in return we assure you that we are keeping your interests constantly in mind. We understand the difficulties of the Pharmacy under present trading conditions, and for our part

WE ARE DOING OUR UTMOST TO KEEP YOU SUPPLIED

ARTHUR H. COX & CO. LTD
Manufacturing Chemists
BRIGHTON ENGLAND

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Shows 16/- profit on 24/- outlay
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Selling at 4/-. Supplied on display cards or counter display boxes

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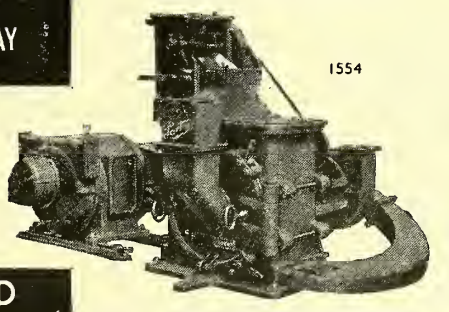
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LEEDS 10

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WAR-TIME MARKET NEWS

summarising war-time opportunities, special notices, new packaging and new products

Readers will be glad to note that copies of— PHARMACEUTICAL FORMULAS VOL. 2

which has recently been out of print, are once again available.

The amount of stock you have for sale need not be limited if you are able to offer goods of your own make. The first essential is a reliable recipe book of tried and tested formulas. P.F. 2 provides exactly what is required in this connexion—it contains an amazing variety of tried and tested formulas of every description.

It is a real money-maker at the present time. It will repay its cost in a single week. The price is 18s. 3d. post free. Order from—

**The Chemist & Druggist
The Pitman Press, Bath**



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SHOWING INCREASED PROFITS**

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Discount 2½% for Cash in 7 days. Extra 2½% for £5 order. Carriage Paid on £5 orders

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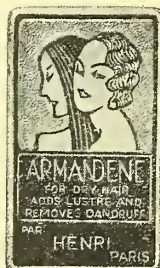
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When your feet feel twice their size a Steepem Medicinal Peat foot-bath is the quickest remedy in the world. Rich in salines, iodine, sulphur and iron stored by Mother Earth, the effect of Steepem is amazing. Inflammation is gently drawn away. Corns, callouses and bunions cease their sharp stabbing and go for good as Steepem increases capillary circulation. A regular Steepem foot-bath loosens joints stiffening with Rheumatism and stops pain of Rheumatic Feet.

Steepem

MEDICINAL PEAT

**Immediate Delivery from Stock
BROOKS & Warburton, Ltd.**

Distributors

232 Vauxhall Bridge Rd., London, S.W.1

BURGE, WARREN & RIDGLEY Ltd.

are now at **14 ARCHWAY ROAD HIGHGATE, N.19**, and wish to express their gratitude to all their friends for the sympathy and kind consideration they have received since their premises in Saffron Hill were destroyed by fire. Although many difficulties arise in securing fresh stocks, Burge, Warren & Ridgley Ltd. are determined to keep the "flag flying" and with the kind indulgence of their customers they are confident of establishing again a service worthy of their high reputation.

The rationing of sugar and other commodities has created exceptional difficulties for Manufacturers of Medicated products.

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HULME, MANCHESTER, 15

are doing their utmost to carry on under the difficult trading conditions now prevailing. Should they have been unable to supply all your requirements during recent months, your indulgence is requested, and you may rest assured that goods will be supplied as soon as conditions permit.

LIVERPOOL SCHOOL OF PHARMACY

Principal: H. HUMPHREYS JONES, J.P. F.I.C.,
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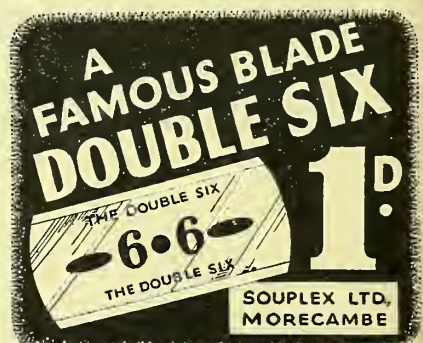
October 2nd

Nine Months' Courses for the Intermediate (Pr.Sc.) and Qualifying Chemist & Druggist Examinations

Also Revision Courses for December-January: Examinations, October 2nd

Full particulars from:

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WAR-TIME MARKET NEWS

summarising war-time opportunities, special notices, new packaging and new products



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and
Quality**

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VICTORY V FACTORY
NELSON, LANCS.**

As a result of a disastrous fire on the 14th August, our warehouse and stocks were almost entirely destroyed, and we shall for the moment be unable to accept or execute any orders. We are, however, making every effort to get our plant into production with the least possible delay, but unfortunately, present-day conditions only add to our many difficulties and we fear that many lines will now be irreplaceable. Although we are more or less "out of action" at the present time we hope to be in a position to resume at least a small number of lines at an early date, but a further announcement will be made later. We should like to take this opportunity of expressing our appreciation and thanks for the many letters of sympathy which we have received.

**BROOK, PARKER & CO. LTD.
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Stocktaking is not always an easy matter—even in times of peace—but in war-time, when there is a dearth of good stocktakers, it may be a troublesome business.

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**The Chemist & Druggist
The Pitman Press, Bath**

THERE IS NOT SUFFICIENT

Beaulah's

FOR ALL THE PEOPLE
WHO WANT IT

Our policy therefore is to endeavour to maintain supplies to our regular "OLD FRIENDS"

In two popular sizes only during
the war, 10½d. & 1/10



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NEWS OF THE WEEK

New Air Mail Service.—The Postmaster-General announces that on and from September 1 an air mail service for letters, letter-cards and postcards will operate between Great Britain and Northern Ireland.

War Risks Insurance Act.—The rate of premium payable under any policy of insurance issued under the commodity insurance scheme will continue to be at the rate of seven shillings and sixpence per cent. per month in respect of the period beginning September 3, 1941, and ending December 2, 1941.

New Food Order.—The Food (Restriction on Dealings) Order provides that from dates to be appointed no trader shall sell, except under licence, any of a range of specified foods and that no trader shall buy any of the specified foods from any trader who does not hold a licence to sell them. The specified foods include biscuits, cakes and crispbreads, condensed milk and milk powder. Licences under this new Order will be issued from the Ministry of Food. The Order does not at present apply to Northern Ireland.

Maximum Retail Prices for Honey.—Under a Ministry of Food Order, which came into force on August 25, maximum retail prices for honey were fixed as follows: Imported honey, containers of 1 lb., 1s. 0½d.; 1 lb., 1s. 9d.; containers holding more than 1 lb., 9d. per lb.; home-produced extracted honey, except heather honey, containers of ½ lb., 1s. 8d.; 1 lb., 2s. 9d.; containers holding more than 1 lb., 2s. 3d. per lb.; home-produced extracted heather honey, containers of ½ lb., 2s.; 1 lb., 3s. 6d.; containers holding more than 1 lb., 3s. per lb.

Miscellaneous Chemicals Control.—The Ministry of Supply announces that the Miscellaneous Chemicals Control has been established at Iron Trades House, 1 Chester Street, Grosvenor Place, London, S.W.1, to deal with certain chemicals which hitherto have been administered directly by the Raw Materials Department, Warwick. Mr. D. J. Bird, until recently Deputy-Controller of Fertilisers, has been appointed Controller. Responsibility for the following chemicals has already been transferred to the Control, and correspondence concerning them should accordingly be sent to the Controller at the above address: Titanium dioxide; chromium pigments and compounds including bichromates, chromates, chrome oxide and chromic acid; chlorates. On other miscellaneous chemicals correspondence should until further notice continue to be addressed to the Raw Materials Department, Ministry of Supply, 10 Castle, Warwick.

Toilet Preparations and Purchase Tax.—According to a notice issued by the Commissioners of Customs and Excise dated August 23, the term "toilet preparations," for purchase tax purposes, includes articles of a kind used generally for personal hygiene, cleansing (including protective cleansing) or dressing, cosmetics and preparations for toilet use on the hair, face or body, or in manicure or pedicure. A toilet preparation, whether medicated or not, is liable for purchase tax at the full rate under Class 18, unless it is shown to be in fact an article or preparation which is mainly used and recognised as a prepared drug or medicine falling within Class 19. Accordingly, the mere fact that a preparation commonly used for toilet purposes is held out as a remedy or is claimed to have medicinal value does not establish that it is entitled to be charged at the reduced rate if it is not a drug or medicine included in the B.P. or B.P.C., or otherwise recognised as such. Preparations falling within the following classes are regarded as toilet preparations chargeable under Class 18: Anti-midge and anti-bite creams and lotions and anti-midge lavender; foot pastes (i.e. of the alleviating cream type) other than medicinal ointments; tablets which are used for perfuming the breath; effervescent mouth-wash tablets.

Public Pharmacists.—The eighty-third meeting of the council of the Guild of Public Pharmacists was held on August 19. Various reports were adopted and seven new members were elected. A subcommittee was formed to revise scales of salaries at present in operation.

Society's Secretary on Call Up of Women.—In a letter to "The Times," August 20, Mr. H. N. Linstead (secretary, Pharmaceutical Society) drew attention to the chaos likely to result in the Nation's health services by the refusal of the Ministry of National Service to allow the release for national service of woman engaged in pharmaceutical work to be regulated by the Central Pharmaceutical War Committee. He urged that the man- and woman-power situation should be dealt with on the same basis as one another, and that the Central Committee should deal with both.

War Damage Commission.—The War Damage Commission has issued a notice which affects the following areas: City and County of London, Birmingham, Bristol, Coventry, Hull, Liverpool, Plymouth, Salford, Sheffield; county boroughs of Bootle, Birkenhead, Southampton, Swansea, Wallasey, and the borough of Gosport. The notice is issued under Section 7 (2) of the War Damage Act, 1941. The effect of the notice is that any person proposing to execute works of war damage repair in the area where the total ultimate cost will be more than £1,000, or ten times the net annual value of the hereditament, whichever is the less, must first inform the Commission. That body will consult the appropriate Local and Planning Authorities to ascertain whether the carrying out of the proposed works would conform with their intentions regarding re-planning and other public interests. The price limits laid down will be strictly enforced. Power is given to the Commission in such cases to impose requirements as to the nature of works, the materials to be used, and the time for their execution, and it may change a cost of works payment into a value (or total loss) payment in those cases where restoration of a building would be contrary to the public interest.

Closures Manufacturers' Association.—An Association has been formed that includes all manufacturers in the United Kingdom of closures for bottles or other containers (metal caps, cork stoppers and the like, but not crown corks, moulded closures and ordinary corks, which are already catered for by other organisations). The following is a list of members: Acme Stopper & Box Co., Ltd.; Thomas Arbuckle; Armstrong Cork Co., Ltd.; Baker Metal Stopper Co., Ltd.; British Duplex Seals, Ltd.; Cap Manufacturing Co.; Reginald Corfield, Ltd.; John Dale Metal Containers, Ltd.; D. Ellis & Co.; J. Farwig & Co.; John Feaver, Ltd.; H. P. Grindley & Co., Ltd.; Hancock, Corfield & Waller, Ltd.; I. A. Hodgson & Co.; T. Hunter, Ltd.; W. G. Huxtable (Swansea), Ltd. (South Wales Canister Co.); Kork-N-Seal, Ltd.; S. C. Lomax, Ltd.; Metal Box Co., Ltd.; Metal Cap & Stopper Co., Ltd.; Metal Closures, Ltd.; Daniel Montgomery & Son; Murray Cork Stopper Co., Ltd.; Press Caps, Ltd.; Roberts Capsule Stopper Co., Ltd.; Robinson Bros. Cork Growers, Ltd.; H. G. Sanders & Son, Ltd.; G. Scammell & Nephew, Ltd.; H. J. Stephens & Co.; Stopper Manufacturing Co., Ltd.; Sure Seal & Sutax, Ltd.; J. W. Sutcliffe & Co.; Wallis Tin Stamping Co., Ltd.; Wright, Bingley & Gell, Ltd. The Association is controlled by a Council composed of Messrs. John Ryan (Metal Box Co., Ltd.); E. A. Blanch (Kork-N-Seal, Ltd.); W. Johnston Dyson (Wallis Tin Stamping Co., Ltd.); A. Hodson (Metal Closures, Ltd.); A. Murray (Murray Cork Stopper Co., Ltd.); B. Rawlinson (Stopper Manufacturing Co., Ltd.); E. P. Smith (Daniel Montgomery & Son); S. Somerton (Roberts Capsule Stopper Co., Ltd.); and S. D. Young (Thomas Hunter, Ltd.).

Chemist Criticised.—Strictures on a pharmacist were made by the coroner recently at an inquest at Belfast on a thirteen-year-old boy who died of diphtheritic ulcerated tonsils. The coroner (Dr. Lowe) said: "I think this boy's death is due to ignorance, and the chemist has done wrong. As far as I know it is contrary to the law for a chemist to prescribe or order treatment."

Chain Stores Encroach on Scottish Chemists' Trade.—A correspondent writes: "Increased attention to pharmaceutical lines has been a feature of Scottish chain-store activity in the last few months. In many stores special display counters are now being used to feature toilet, branded pharmaceutical, and patent-medicine items. Particular attention has been given to first-aid requisites, and big displays of requirements for first-aid use have been common."

Manchester Chemists' Golf.—The competition of the Manchester Chemists' Golfing Society for the president's prize was played at Old Manchester Golf Club on August 20. The leading returns were: W. Gee, 67, winner; R. Demaine, 76, second. Visitors, H. Heavers, 76; A. B. Murray, 76; the prize was awarded to H. Heavers, for lower return on first nine holes. Members were the guests of the president (Mr. J. H. Franklin) in the afternoon, and a vote of thanks proposed by the Captain (C. Stevens) was accorded with acclamation.

Irish Drug Association.—Mr. P. F. McGrath (president) reported to a recent meeting of the committee of the Irish Drug Association the result of a conference with the Department of Supplies. At the moment it is considered that there are small hopes of substantial supplies of chemists' lines arriving in Eire from foreign countries. Discussion took place at the meeting on various prices in the price list, and for the guidance of members it was pointed out that the prices for heavy chemicals, etc., were minimum rates, and members who had paid higher prices should adjust their selling prices accordingly.

Northern Ireland War Distress Fund.—The second list of subscriptions received for the War Distress Fund organised by a committee representing the Pharmaceutical Society of Northern Ireland and the Ulster Chemists' Association is as follows: £5 5s. each, J. & W. C. Gaw, Belfast; A. Templeton, Garvagh. £5, An American Sympathiser (per Mr. J. C. Culbert). £3 3s. each, J. W. Gray, J.P., Armagh; Ulster Chemists' Golfing Association. £2 2s. each, David Baird; W. Gilmore; W. J. Young, Belfast; J. Reid, Ballymena; Hannawin's Medical Hall, Ltd., Ballynahinch; J. W. McClatchie, Ballywalter; James Dale, Dromore; E. Allen, Holywood; E. D. Barr; Craig & Wellwood, Londonderry; W. F. Pedlow, Portadown; James Murphy, Warrenpoint. £2, J. A. Mallon, Dungannon. £1 1s. each, Johnston Bros., Belfast; G. R. Calvert, Ballyclare; A. F. Hastings, Newcastle. £1 each, Jack Kane, Belfast; R. McBirney & Co., Ltd., Annalong, co. Down. 10s. 6d., T. A. Crooks, Londonderry. 10s., J. F. Grimes, Pomeroy.

Calculating Retail Profits.—Your timely editorial reminder of the practical effect of the Prices of Goods Act (p. 105) on retail sales needs to be kept clearly in mind, especially by any of us, if such there are, who have allowed our attention to this important matter to relax. Nearly two years ago you made more than one reference to the bearing of this Act on retail trade, explaining the chief points affecting the business of a chemist and druggist. One of the last things that we who remember the years immediately following the war of 1914-18 wish to see is another Profiteering Act, with its trivial and time-consuming complaints heard with due—or undue—solemnity by committees of heterogeneous composition. Some of the cases of the kind reported by you at the time were, in a sense, diverting because of their subject-matter; but they were far from amusing to the chemists who were dragged from their shops to justify prices alleged to be excessive. The late Mr. Alfred Higgs and a few other pharmacists did admirable service in working up adequate defences in several of these cases, and you provided some valuable data for the same purpose. Avoidance of similar trouble during the present war is largely a matter of efficient book-keeping. Chemists who do not use a cost-price book or the equivalent need to keep their invoices in such order that they can at any moment trace the cost price of any stock about which a doubt arises.

Ethics and Plain Speech.—Hard words, we are told, break no bones; and perhaps it is as well that medical men who think pharmacists have lapsed into an exhibition of "gross cheek" and "utter selfishness," whether they live at Walsall or elsewhere, should say so openly. The proceedings of the Insurance Committee reported on p. 104 are entertaining in a way seldom achieved at such dull and, let us hope, decorous meetings. But it is worth while to glance for a moment at the ethical aspect of the incident. The "Statement

BIRTHS

BERRIDGE.—On August 16, the wife of John Berridge, Ph.C., 5 Hinslwood Drive, Ibrox, Glasgow, of a daughter.

McKINNELL.—At Fishlake, Doncaster, on August 10, the wife of Willi McKinnell, M.P.S., Thorne, of a daughter.

MARRIAGES

HOUSTON—YOUNG.—At The Manse, 8 Greenhill Terrace, Edinburgh on August 18, William Swanson Houston, M.P.S., 6 Murieston Cresce to Christina Charlotte Cleland Young, 21 Warrender Park Terra Edinburgh.

PATON—MACLUCAS.—At St. Oran's Parish Church, Edinburgh, August 9, David John Anderson Paton, M.P.S., 3 Dunbar Terrace, Dufries, to Katherine Anne Livingstone MacLucas, M.P.S., 8 Craigleith Crescent, Edinburgh.

DEATHS

BEILBY.—On August 16, Mr. Alfred Emmanuel Beilby, M.P.S., aged eighty-nine. Mr. Beilby had carried on business in Ilkeston Road, Radford, Nottingham, for well over half a century, and was the old sub-postmaster in the district. He took a great interest in the old Association and in the Nottingham Branch of the Pharmaceutical Society. He was a past-president of the former and had been chairman of the latter. For many years he acted as lecture secretary of the Branch. Mr. Beilby was greatly interested in architecture, history and photography and was greatly missed. He is survived by a widow, one son (Mr. Cyril Beilby, M.P.S., who has for some time been assisting him in the business) and two daughters. The funeral took place on August 19 and among those who attended were Messrs. T. R. Burrows, F. R. Sergeant (also representing K. Sergeant), W. Ball, S. H. Plattin, F. W. Shepherd, A. E. Turne, G. Trease, W. J. Clay, W. E. Newbold and C. E. Reynolds.

GATES.—At 105 Herries Road, Pollokshields, Glasgow, on August 16, Mr. Joseph Chalmers Gates, M.P.S. (Joy's Capsule Co.). Mr. Gates qualified in 1933.

MUNRO.—On August 17, Mr. John Joyner Munro, M.P.S., 164 Nithsdale Road, Glasgow. Mr. Munro passed the Minor examination in 1886.

RECENT WILLS

MR. THOMAS JAMES WHITE, Ph.C., Market Street, Cootehill, co. Cavan Northern Ireland, who died on February 25, left personal estate in England and Eire valued at £6,062.

MR. WILLIAM JAMES PATEY, Ph.C., Nockhill, Denham, Bucks, and New Bond Street, London, W., who died on February 25, left estate of the gross value of £53,641, with net personality £51,507.

MR. JAMES MCINTOSH FISHER, 4 Hornton Court, Kensington, London W., a director of May & Baker, Ltd., manufacturing chemists, Dagenham who died on April 14, left £37,759, with net personality £22,147.

MR. WILLIAM HENRY HOWARD, 8 Ashlyn Grove, Fallowfield, Manchester formerly a director of James Woolley, Sons & Co., Ltd., who died on May 14, left £8,342 gross, with net personality £7,852. He instructed that, on the death of his wife, the whole of his property should go to form a W. H. Howard Memorial fund towards the company's Employees' Thrift Fund.

TOPICAL REFLECTIONS

upon Matters of Professional Conduct" issued by the Council of the Pharmaceutical Society in 1939 contains an injunction against discussing with a patient a prescription or a "proposed" medical treatment in such a manner as to impair confidence. This is an excellent piece of advice; there seems, however, to be no obligation on members of the medical profession to abstain from impairing confidence in the policy of pharmacists as dispensers of National Health Insurance prescriptions. True, the remark reported on p. 104 made no direct reference to the quality of the dispensing provided for insurance patients; but a serious reflection on an aspect of the dispensing service given should not pass without protest. I presume that the subject is receiving due attention locally.

Thomas Percival.—It is a safe guess that the "Thomas Parzifal" referred to in the new history of pharmacy by Dr. Edward Kremer and Mr. George Urdang (p. 106) is Thomas Percival, M.D., a subject of occasional notes in your columns. As you point out, Samuel Kay may claim to have been the actual originator of the internal use of cod liver oil for rheumatism. Kay called Percival's attention to his own results; and Percival, through his influence as a physician at the Manchester Royal Infirmary, gave the new treatment a wide publicity than it might otherwise have received then. Percival was a man of many interests and of wide culture. He was one of the first presidents of the Manchester Literary and Philosophical Society, founded by him and others in 1781; and his circle of friends and correspondents included Joseph Priestley, Benjamin Franklin and David Hume. By his detailed observations on the public health of Manchester "and other Adjacent Places" he made a significant contribution to sociology at a period when the serious study of the subject was almost unknown.

Xrayser

LEGAL REPORTS

Transactions in Razor Blades.—At Clerkenwell Police Court, London, on August 22, Henry Bloomstein was committed for trial on a charge of receiving quantities of safety razor blades, the property of Gillette Industries, Ltd., knowing them to have been stolen or unlawfully obtained (see *C. & D.*, August 23, p. 101).

Prices of Goods Act Prosecutions.—At Newport Pagnell, Bucks, on August 20, Alfred H. Rickards, M.P.S., was fined 5s. for selling a packet of five razor blades for 1s. 6½d. instead of 1s. 3d., the regulation price.—At Southend, on August 20, Phyllis A. Jones, Canvey Island, was fined £20 for selling two bottles of disinfectant at 9d. each whereas the maximum price should have been 6d.

COMPANY NEWS

P.C. means Private Company and R.O. Registered Office

MASQ COSMETICS, LTD. (P.C.).—Registered in Dublin. Capital, £1,000. Objects: To acquire the business carried on by Mrs. Lillian H. Maskew, 4 South Anne Street, Dublin, as "Masq Cosmetics." The first directors are not named.

METRO CHEMICAL CO., LTD. (P.C.).—Capital £1,000. Objects: To carry on business as manufacturers of and dealers in chemicals, etc. First directors to be appointed. Solicitors: Walter, Burgess & Co., 20-24 Coorgate, London, E.C.2.

ARTHUR LAWSON, LTD. (P.C.).—Capital £100. Objects: To carry on business of chemists, herbalists, etc. Arthur Lawson, senr., 171 Illeman Avenue, Twickenham, and Arthur Lawson, junr., 46 Bell Road, Hounslow, directors. R.O.: 46 Bell Road, Hounslow.

R. DEMUTH, LTD. (P.C.).—Capital £500. Objects: To carry on business of manufacturing, research, consulting, analytical, dispensing and pharmaceutical chemists, etc. Sylvia M. Demuth, Cedar Wood, Park Avenue, Horley Wood, Kenneth E. R. Demuth, 1a McKenzie Road, Broxbourne, Hert., and Ronald L. Demuth, 20 Hollycroft Avenue, London, N.W.3, directors. R.O.: 68 Salusbury Road, Kilburn, London, N.W.6.

UNITED GLASS BOTTLE MANUFACTURERS, LTD.—Interim dividend of 1½ per cent., less tax, is being paid on the ordinary shares (same as last year).

STEPHEN SMITH & CO., LTD.—Report for year ended April 30 shows trading profit of £54,647 (£3,182 more than last year). Directors recommend payment of a dividend on ordinary shares of 12½ per cent., less tax, for the year, leaving £5,390 to be carried forward.

HUGH MOORE & ALEXANDERS, LTD., wholesale chemists, Dublin.—Report for year to March 31 shows net profit of £6,810. Balance, which includes £1,131 brought forward from last account, is £7,941; out of this £50 is transferred to investment reserve; £3,000 to general reserve; and £2,500 as provision for taxation, leaving £1,591 to be carried forward. Directors are unable to recommend payment of dividend.

BEECHAMS PILLS, LTD.—The directors' report for the year ended March 31, 1941, states that the trading profit of £1,085,893 compares with £655,615 for the year ended March 31, 1940, and is arrived at after setting aside in the accounts of two subsidiary companies £97,758 for the redemption of preference shares in those companies. Sales in the home market, states the report, have shown an appreciable increase, apart from substantial contracts carried out for Government departments. Every effort has been made to increase the group's export trade, which has been mainly and continuously built up in the Dominions and Crown Colonies of the British Empire, in the United States of America, and in the South American markets. The material increase in the volume of sales in all these markets will be of permanent value to the company, and although increased costs and the difficulty of currency transfers are at present reducing the amount of normal profits, the substantial profits earned in the previous year have been almost maintained. The group's contribution to the national Exchequer for the year under review is estimated to amount to £1,003,785, made up as follows: Medicine-stamp duty, £166,665; income tax, 1940-41, £499,021; and excess profits tax and national defence contribution (estimated), £338,099. The dividend on the deferred capital is unchanged at 2½ per cent.

TIMOTHY WHITES & TAYLORS, LTD., and associated companies.—Trading profit of Timothy Whites & Taylors, Ltd., for the year ended December 28, 1940, amounted to £393,129, against £373,541 in 1939. Net profit was £157,651. Dividend on ordinary capital is maintained at 10 per cent. for the year, and balance of £75,773 remains to be carried forward, against £66,525 brought in. Directors state that expansion programme laid down some years ago has been temporarily suspended. Results for 1940 of three subsidiary companies were (figures for 1939 given in parentheses): **TAYLORS (CASH CHEMISTS) TRUST, LTD.**—Revenue, £3,113 (£90,322); income tax, £30,763 (£33,182); preferred dividend, 369 per cent. (10-418 per cent.); deferred dividend, 6-562 per cent. (2-733 per cent.); forward, £13,509 (£13,404). **TAYLORS (CASH CHEMISTS) LTD.**—Profit, £66,672 (£59,447); depreciation, £6,739 (£6,480); taxation, £32,049 (£19,821); preferred dividend, 5-12 per cent. (4-8 per cent.); deferred dividend, 5-69 per cent. (5-33 per cent.); forward, £6,262 (£6,259). **TAYLORS (CASH CHEMISTS) MIDLAND, LTD.**—Profit, £57,775 (£49,599); depreciation, £4,990 (£5,154); taxation, £33,945 (£17,093); ordinary dividend, 12½ per cent. (same); deferred dividend, tax free, 2½ per cent. (4½ per cent.); forward, £12,620 (£12,486). **TAYLORS DRUG CO., LTD.**—Net trading profit, £134,820 (£114,116); depreciation, £12,846 (£12,378); taxation, £70,051 (£29,671); ordinary dividend, 7½ per cent. (13½ per cent.), tax free; forward, £8,107 (£7,583).

TRADE NOTES

HERB BEER.—Inviting chemists to write for trade terms, Newball & Mason, Ltd., Nottingham, claim that a bottle of Mason's extract of herbs yields nine gallons of herb beer.

WAR-TIME MARKET NEWS.—Announcements under this heading on another page include those of J. & J. BEULAH, LTD., Boston, Lincs (Beulah's malted milk); FRYER & CO. (NELSON), LTD., Nelson, Lancs (Victory-V); and SOUPLEX, LTD. (Double-Six razor blades).

SUPPLY NOW EQUALS DEMAND.—For the first time since they were offered to the public, the supply of Multishave safety-razor blade sharpeners now equals the demand. Showcards are sent with each order and a special offer, which includes thirteen weeks' free advertising in local newspaper, is still available.

BROOK, PARKER & CO., LTD., manufacturing chemists, Bradford, elsewhere in this issue refer to the recent fire at their premises and point out that while for the moment they are unable to accept or execute any orders, every effort is being made to recommence production and it is hoped that certain lines will be available at an early date. The company wish to express their thanks for many letters of sympathy received.

EDIBLE OIL SUBSTITUTES.—Moreland & Co., Coronation House, 4 Lloyds Avenue, London, E.C.3, have placed on the market an olive oil substitute and a sweet almond oil substitute. The former is stated to be about 0-25 per cent. acidity and is available in 10-gall. lots in qualities including edible, vitaminised and technical. The last mentioned is of 4½ to 5½ per cent. acidity and is obtainable in ton lots. The sweet almond oil substitute has characteristics similar to the pharmacopoeial product. Full details are obtainable on request.

REDUCED PRICES OF PROPRIETARIES.—In view of the repeal of medicine-stamp duty as from September 2, the following manufacturers of proprietaries have notified revised retail prices of preparations at present being sold stamped: Aspro, Ltd., Slough; George Jackson & Sons, Ltd., Brewery Street, Harpurhey, Manchester; Potter & Clarke, Ltd., 60 Artillery Lane, London, E.1; and Stephen Matthews & Co., Ltd., 19 Farringdon Street, London, E.C.4. Details of the new prices are given in advertisements in this issue.

COD LIVER OIL SUPPLIES.—The British Cod Liver Oil Producers (Hull), Ltd., Hull, are advising all chemists by letter of the present supply position of Sevenses cod liver oil. There has been no diminution in either quantity or quality, and any temporary shortages must be ascribed to transport and distribution difficulties. To meet these difficulties, the company asks chemists to order well in advance of actual requirements. Owing to heavy increases in costs, it has been found necessary to advance the prices of the 8-oz. and 16-oz. packs of standard-quality oil, but prices of other sizes of the standard oil, and of the concentrated oil and capsules, are unchanged. The new prices come into operation on September 1, and a six months' national advertising campaign, both to the public and also to doctors and nurses, commences during the month.

Proprietary Articles Trade Association

Additions and Alterations to Protected List.—*Edwin Burgess, Ltd.* The following prices will apply in Great Britain from September 2: Burgess Lion ointment and pills, 1s. 1d., 10s. doz., tax 1s. 8d. doz., inclusive retail price, 1s. 3d.; 2s. 8d., 24s. doz., tax 4s. doz., i.r.p. 3s.; 4s. 5½d., 38s. 6d. doz., tax 6s. 5d. doz., i.r.p. 5s.; 10s. 8d., 96s. doz., tax 16s. doz., i.r.p. 12s.; 21s. 6d., 14s. rod. each, tax 2s. 6d. each, i.r.p. 24s.

G. T. Congreve, Ltd. New prices operative on September 2: Balsamic elixir, 1s. 3d., 11s. 3d. doz., tax 1s. 10½d. doz., i.r.p. 1s. 5d.; 3s., 27s. doz., tax 4s. 6d. doz., i.r.p. 3s. 4½d.; 5s., 45s. doz., tax 7s. 6d. doz., i.r.p. 5s. 7½d.; 12s., 108s. doz., tax 18s. doz., i.r.p. 13s. 6d. These prices also apply to Dr. Flemming's quinine and compound pills, except for the 12s. size.

Alfred Fennings (Distributors, John Sanger & Sons, Ltd.) New prices on September 2: Children's cooling powders, 10s. doz., tax 1s. 8d. doz., i.r.p. 1s. 3d.; 24s. doz., tax 4s. doz., i.r.p. 3s.; 96 powders (broken bulk) 46s. doz., tax 7s. 8d. doz.; 240 powders 110s. 6d. doz., tax 18s. 6d.; single powders, 1d. each or two for 1½d.; Fennings' adult powders, whooping-cough powders, worm powders and stomach strengtheners, 10s. doz., tax 1s. 8d. doz., i.r.p. 1s. 3d.; 24s. doz., tax 4s. doz., i.r.p. 3s.; Fenning's lung healers, prices as for whooping-cough powders, plus ten for 6d. screws, 38s. 6d. doz., tax 6s. 6d., i.r.p. 5s.; Fennings' ointment, 10s. doz., tax 1s. 8d. doz., i.r.p. 1s. 3d.

Fennings' Fever Curer and Rheumatic Drops (Agents, Sutton & Sons). New prices on September 2, 10s. doz. (2 gross at 9s. 4d. doz.), tax 1s. 8d. doz., i.r.p. 1s. 3d.

John Freeman & Co., Ltd., Spa Nylon tooth-brushes—No. 1, 1s. 6d., 10s. 9d. doz., tax 3s. 7d. doz., i.r.p. 1s. 9½d.; No.'s 2, 3, and 5, 3-rod, 2s., 14s. 6d. doz., tax 4s. 10d. doz., i.r.p. 2s. 5d.; No. 4 Shorthead, prices as for No.'s 2, 3, and 5; No.'s 6 and 7, 2s. 6d., 18s. doz., tax 6s. doz., i.r.p. 3s.

Dr. John Hooper's Female Pills Co., Ltd. (Agents, May, Roberts & Co., Ltd.) New prices on September 2, Dr. John Hooper's Female pills, "The Genuine," 8s. 6d. doz., tax 1s. 5d. doz., i.r.p. 1s. 2d.; 18s. 6d. doz., tax 3s. 2d. doz., i.r.p. 2s. 9d. less 5 per cent. on six dozen or 7½ per cent. on twelve doz.

John Morgan Jones (Agents, May, Roberts & Co., Ltd.) New prices from September 2, Jif powders, 18s. doz. boxes, tax 3s. doz., i.r.p.; 2s. 6d. box; 194s. doz. boxes of 144 powders, tax 32s. 4d.; loose powders, 2½d. each.

Western Dental Mfg. Co., Ltd. Sotol mouth-wash tablets, bottles of forty, 1s. 9d., 15s. 9d. doz., tax 5s. 3d. doz., i.r.p. 2s. 2d.; 100's, 3s., 27s. doz., tax 9s. doz., i.r.p. 3s. 9d.; 250's, 6s., 54s. doz., tax 18s. doz., i.r.p. 7s. 6d.; 500's, 10s., 90s. doz., tax 30s. doz., i.r.p. 12s. 6d.; gross lots, 15s. 3d.; 26s. 1d.; 52s. 2d. and 87s. doz. respectively, plus purchase tax.



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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

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Leaders at Loggerheads

In the past the rank and file of pharmacists have not infrequently been blamed for pharmacy's shortcomings, but the light thrown on recent moves by the August issue of the "N.P.U. Supplement" tends to show that in the political sphere the leaders may not be altogether absolved from censure. Under the heading "Disillusionment," the "Supplement," after describing the arrangement made with the Proprietary Medicine Manufacturers prior to the introduction of the Pharmacy and Medicines Bill, states: "When the Pharmacy and Medicines Bill was introduced and it was seen that without agreement with the N.P.U. the Bill was dealing legislatively with proprietary medicines, an attempt was made by the N.P.U. to secure support on the retail side for a combined attempt to improve the chemist's position. It was a great disappointment to find that the president, vice-president and secretary of the Society, as representatives of the Society, refused to join in any action which the N.P.U. proposed to take other than support for the Bill with minor amending amendments. It transpired that the Bill included the Society's agreement with the Home Office to amend Clauses 8, 9 and 10, the Society's arrangement with the Privy Council *re* the Statutory Committee, and previously accepted clauses dealing with advertising, etc. Further, that the Society was negotiating for further recognition under the Bill as the enforcing body. It was a disillusionment to the N.P.U. Executive to find that the Society was apparently more interested in securing additional powers for the Society than was in the betterment of the position of pharmacists, although it was obvious that no such opportunity would occur again for a very long time, and pharmacists would have cause to regret the manner in which the interests of pharmacy had been subordinated to those of the Society. Whilst it has always been the policy of the N.P.U. to support the Society on every occasion, this is not the first occasion during recent years on which the Society has failed to support the N.P.U., and it becomes evident that the wise policy of co-operation with the N.P.U. which prevailed when Sir William Wyn-Jones was secretary, and which helped the Society in many ways, has been abandoned. Can it be that the N.P.U. is regarded as a rival, and that it must be prevented from growing in strength regardless of the business interests of pharmacy, or is it that the Society being completely involved in 'government' no longer regards itself as responsible for its actions to its members, but regards itself as a semi-government department which can safely ignore the wishes of its members so long as further 'governing' powers can be obtained? What a change from the policy of the leaders who created it to benefit the calling, not for 'bossing' the members and making new offences for them to commit." The state of affairs revealed by this publication must be regarded as particularly unfortunate when it is remembered that pharmacy has often been cited by members of other professions and trades

as the best organised calling of all. Such a standard has had considerable foundation, and may have resulted from pharmacy's dual nature. Yet the question may well be asked now whether any advantage has accrued from this thoroughness of organisation, and we think most pharmacists will be compelled to reply that "the answer is in the negative," particularly in view of the events of the last few months. Here, perhaps is the answer to the problem why pharmacy is not more respected and its views more willingly accepted in Parliament and in Government circles.

Since 1937 there has been in existence a liaison committee composed of the officials of the Pharmaceutical Society and the National Pharmaceutical Union, the purpose of which was to consider any matters appearing to fall within the province of both bodies. This committee could take no independent action but its duty was to report to the Pharmaceutical Council and the N.P.U. Executive. Here then was all the machinery for collaboration, yet when pharmacy was faced with two matters of prime importance to every section of the trade, the Society negotiates on one point and the N.P.U. on another, apparently without any scheme of mutual assistance. The net result of such independent action is that pharmacy is the loser.

The secret diplomacy which has been carried on during the past year has frequently been deplored by THE CHEMIST AND DRUGGIST, and on various occasions we have called attention to what has been going on. Pharmacists are now beginning to learn of the differences existing among the leaders of pharmacy, but recriminations will not put the matter right. What is wanted is some scheme by which pharmacy, particularly when dealing with the Government, can speak with one voice, and if existing organisation is not suitable or adequate then no time should be wasted in setting pharmacy's house in order. There will always be differences of opinion within pharmacy, but where the advancement of the calling is concerned there must be unanimity of action among the leaders so far as the outside world is concerned.

Oppose and Expose

THE Board of Trade has issued a Draft Order under the Goods and Services (Price Control) Act, 1941, proposing to amend the First Schedule to the Prices of Goods Act, 1939. The draft has been submitted to and has to be approved by both Houses of Parliament. The First Schedule to the 1939 Act is composed of a list of normal and usually unavoidable expenses that arise in the ordinary course of carrying on a business, such as, for instance, cost of materials, plant maintenance, wages, salaries, transport, and overhead expenses generally. These specified items are allowed to be taken into account when it is desired to prove that the cost of production or distribution of price-regulated goods has increased since August 1939. One item of expense specified in the Schedule is "insurance premiums." The Board of Trade is now endeavouring to obtain Parliament's sanction to a proposal that there should be added at the end of the said Schedule the words: "Provided that the matters aforementioned shall not include:—

- (i) any payment made in or towards the discharge of any liability imposed under Part I of the War Damage Act, 1941, as, or as a mortgagee of, a direct or indirect contributor;
- (ii) any premium payable under a policy issued under either of the schemes operated under Part II of the said Act; or
- (iii) any expenditure on repairing or otherwise making good war damage in so far as there is entitlement to a payment in respect of the damage by virtue of the provisions of the said Act or by virtue of a policy issued under either of the said schemes.

It will be noted that the items (i) and (ii), both contributions under Part I of the War Damage Act, and the premiums under Part II of that Act, are compulsory payments, but they are not to be allowed as items of expense. Premiums payable under the Commodity War Risks Insurance Scheme and ordinary commercial insurance premiums are allowed to be taken into account as provided for in the Schedule. Why should there be this distinction? Parliament deliberately provided for insurance premiums to be allowed to be counted as part of the cost of production or distribution of goods, and now the Board of Trade is asking for approval of both Houses to make these important exceptions to that ruling. This is an attempt by means of departmental legislation to secure the reversal of a decision of Parliament, taken after due deliberation. It should be opposed and exposed. If it is allowed to pass unchallenged, the whole basis of costing under the Prices of Goods Act, namely, the First Schedule, may in due course, by the issue of a succession of departmental orders, be whittled down and become quite useless. Manufacturers, wholesalers and retailers should take immediate action to ensure that these mischievous and unjust proposals are rejected by Parliament.

SEAWEED PRODUCTS: IMPORTANT DEVELOPMENTS

SOME little time ago the attention of several scientists was drawn to the fact that the difficulties of war transport were making supplies of agar uncertain, and that, since almost all the production was in Japan, supplies might become scarcer still or even cease. Agar is an absolute essential in bacteriology and no *ersatz* material has been devised to take its place. The Germans found this to their cost in the last war when they were forced to all kinds of expedients owing to agar shortage. Though this is its most important use the amount required is small compared with that used in pharmacy, cosmetics, the food industry, and a number of other applications such as sizing paper, printing silk, and so on. In addition to the established uses of agar, scarcities of certain other materials opened up the possibility of employing it as a substitute in a number of ways.

The problem presented was a double one. First, were there adequate supplies of seaweeds which would yield agar, and secondly, if so, how best could they be processed? Preliminary investigations showed that certain British species gave an agar which proved suitable for bacteriological purposes, and that others provided an agar which had not the right melting point for bacteriology, but which promised to be satisfactory for pharmaceutical and other uses. Unfortunately, the former species are small, and not over plentiful, though the latter appear to be available in more generous amounts. Consequently a number of algologists have been asked to make ecological surveys to ascertain if larger supplies grow in any particular part of the coast. In addition to this they will be able to make observations on the biology of the seaweeds which will certainly have practical applications. This work is now in progress, and while it is too early to predict its outcome, there are indications which are at least hopeful.

The second part of the problem is also being tackled both in the scientists' laboratories and by commercial firms. The basic physical and chemical properties of the gels are being closely examined by several research institutions. The methods employed by the Japanese producers are traditional and are still employed owing to the low cost of labour, but techniques on more modern lines are being tried out in Britain, and again they are promising enough to justify further work. To indulge in prophecy is never safe, and this is specially true now whenever new difficulties beset industry, and so it is not possible to say when production will reach a point that will be able to satisfy the needs of the market. It can be said, however, that everything possible is being done.

In addition to agar, seaweeds have other applications in industry, and some of these are fast assuming great importance. Algin can be extracted from other types of algæ, and its compounds, such as sodium alginate, have as wide a variety of applications as has agar. It is now employed in pharmacy and cosmetics as a substitute for acacia, tragacanth and karaya gum, and also as an emulsifying agent, to mention only a few uses. In some instances its particular properties give it an advantage over the substances for which it is now substituted. Doubtless these applications will grow in number as it is tried in new ways. Carrageen is yet another product of a slightly different type which has its long-established use in pharmacy, and which is now being applied to new purposes as a valuable substitute. It appears, indeed, that the demand at present exceeds the supply, though no exact figures are available. Another substance differing from the others is extracted from seaweed by the Japanese, who call it *fumori* and use it as a sizing material. Seaweeds have long been used in Britain as agricultural manures, and the application of modern machinery and methods here could make a valuable addition to our war resources. The coasts can be harvested to give raw materials for cattle and poultry foods, and this is also receiving attention. The prospect of obtaining human food is not, however, so good, as our digestive tract does not seem able to deal so satisfactorily with the carbohydrate of seaweed as does that of the ruminants. Dulse and slocke in Scotland and laver bread in Wales have their devotees, and if supplies could be made readily available along with recipes for cooking, they might be more widely used. At the moment figures for the vitamin A content of these weeds are not available, but there are indications that it is by no means insignificant.

In the midst of war we all have additional calls on our time and energies, and the scientists are amongst those civilians who have been called on to make specially strenuous efforts. It is encouraging to find that attention is being paid, and so successfully, to a subject that has often been dismissed as being too speculative to be worthy of serious consideration.

LAY VIEWS ON MEDICAL SERVICES

THE British Institute of Public Opinion, an organisation engaged in sounding opinion on matters of social and political interest, recently surveyed public sentiment on the question of the medical service of the country. The institute's investigators asked citizens to whom its questions were addressed to state a preference for one of the following proposals:—

- (a) Doctors and hospitals to be under State control with their services free as education now is.
- (b) Extension of the panel system to include everybody.
- (c) Having a private doctor who is paid for his visits and medicine.

The replies showed 55 per cent. in favour of (a), 30 per cent. in favour of (b), and 15 per cent. in favour of (c). As might be expected the voting in favour of the private doctor was highest in the higher income groups (40 per cent.), the figures for the middle and lower income groups being 21 per cent. and 13 per cent. Of persons under the age of fifty who were questioned, 58 per cent. were in favour of State control, against 45 per cent. in the over-fifty group, in which there was rather more inclination to favour extension of N.H.I. As between the sexes, voting for extension of the panel was about level, but more men than women showed themselves in favour of State control (58 per cent. against 52 per cent.), and more women than men in favour of the private doctor (18 per cent. against 13 per cent.).

RECENT RESEARCH

Toxicity of Ozone.—In tests carried out to find the influence of nitrogen oxides on the toxicity of ozone, Thorp ("News Edition of the Journal of the American Chemical Society," 1941, I, 686) has noted a large difference of toxicity between pure ozone and ozone containing nitrogen oxides. The variance of opinion in the literature on ozone toxicity is probably due to results obtained with ozone containing varying amounts of nitrogen oxides. Ozone free of oxide of nitrogen is non-toxic in concentrations below twenty parts per million. Ozone plus nitrogen oxides may be more toxic than nitrogen oxides alone, and should be investigated further. Ozone containing 47 per cent. nitrogen oxides has bactericidal properties in concentrations over three parts per million, but pure ozone does not exhibit bactericidal properties below fifty parts per million.

Analysis of Cellulose Derivatives.—The methods available for the determination of combined acyl in cellulose esters fall into two classes: saponification with aqueous or alcoholic alkalis or hydrolysis in acid solutions. Difficulties inherent in these methods and establishing the accuracy of a method are discussed by Genung and Mallatt ("Industrial and Engineering Chemistry," Analytical Edition, June, p. 369). These workers state that the modified Eberstad method is the most accurate and generally satisfactory for the analysis of cellulose acetate and certain other esters of low molecular weight acids. It involves swelling the sample with aqueous alcohol and saponifying with aqueous alkali at room temperature for one to two days. A more nearly universal procedure consists of a saponification with 0.25 N alcoholic alkali for sixteen to twenty-four hours at not higher than 30° C. However, accuracy is more difficult to attain by this method than by the Eberstad method. The acid distillation method of Ost requires more labour per sample but is the most rapid of the three methods. It has unique advantages which make it useful for special purposes if not for routine use. The effects of the most important variables, limits of applicability, precision, and accuracy are given for these three methods.

Colorimetric Determination of Magnesium.—A colorimetric method, based on the use of titan yellow and a photoelectric colorimeter, affords a rapid and reliable means for determining magnesium in quantities ranging from 0.5 to 300 p.p.m. in fertilisers and soil extracts ("Industrial and Engineering Chemistry," Analytical Edition, July, p. 499). The coloured complex is stabilised by hydroxylamine hydrochloride. The titan yellow solution contains 0.15 gm. of dye in 75 c.c., 95 per cent. ethyl alcohol, and 25 per cent. distilled water. The procedure does not involve the separation and purification of any magnesium precipitate and thus eliminates several steps. Calcium, up to a maximum concentration of 800 p.p.m. does not interfere with the determination of 1 p.p.m. of magnesium but should be kept below 500 p.p.m. Similarly, ammonium and phosphate ions should be kept below 600 to 700 and 100 p.p.m. respectively, while aluminium and tin must be absent. The spectral absorption curves for the coloured complex and titan yellow were determined by means of a spectrophotometer. In the analysis of several commercial fertilisers, tap water, and soil extracts good agreement between duplicate determinations was obtained, and results were found to agree with those obtained by the hydroxyquinolate gravimetric method.

CHEMISTRY OF THERAPEUTIC SUBSTANCES

by F. Prescott, M.Sc., Ph.D., A.I.C., L.R.C.P., M.R.C.S.

VI.—Opium Alkaloids

Opium, the dried juice of *Papaver somniferum*, owes its pharmacological activity to a number of alkaloids, the most important being morphine, codeine, papaverine, narcotine and thebaine. Other alkaloids present include pseudomorphine, laudanose, laudanine, thebaine, and hydrocotarnine, which are only of pharmacological interest. The total alkaloids of opium vary from 5 to 25 per cent., averaging 10 of morphine, 6 of narcotine, 1 of papaverine, 0.5 of codeine, and 0.3 of thebaine. The alkaloids are present in combination as the meconates, lactates and sulphates. The activity of opium is due mainly to the morphine present, although the other alkaloids modify its action. It has been claimed that in certain cases a better effect is obtained with the total alkaloids of opium than with morphine alone, and therefore a preparation containing all the opium alkaloids in the proportion in which they exist in natural opium has been introduced as papaveretum (alopon, opion, opoidine), which can be given by injection. According to thebaine opium is superior to morphine because it contains narcotine, which is not depressant but intensifies the effect of morphine. He has therefore introduced a combination of morphine and narcotine meconates under the name of narcophine, which he claims is superior to morphine in narcotic action without depressing the respiration. The narcotic action of opium is due mainly to the morphine that it contains; the narcotic action of the other alkaloids is very slight.

Phenanthrene and Isoquinoline Alkaloids.—The opium alkaloids can be divided into two groups: (1) Morphine, codeine and thebaine, which are derivatives of the hydrocarbon phenanthrene:—

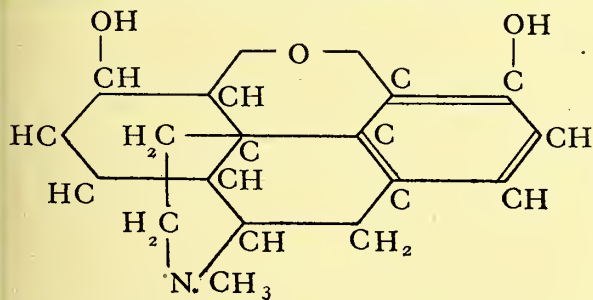


Papaverine, narcotine, laudanose and the remaining alkaloids which are derivatives of isoquinoline:—



The two groups illustrate how differences in chemical constitution may affect pharmacological action. The phenanthrene group have only a depressant action on the central nervous system; codeine has only a slight depressant action, and in large quantities is convulsant like thebaine, which has practically no depressant action. The isoquinoline alkaloids on the other hand vary in their effects. Papaverine is midway between codeine and morphine in its depressant action, and with the other isoquinoline alkaloids has a spasmolytic effect. Thus it relaxes the tone and slows down the contractions of the intestine in the experimental animal, although it has never been proved that it has this action in man. Narcotine has practically no narcotic action, is far less toxic than morphine or codeine, and papaverine is spasmolytic. It is a compound of hydrocotarnine, the other alkaloid, with opianic acid.

Morphine.—This alkaloid has the following structure:—



It will be noted that morphine has two hydroxyl groups, one of which is phenolic, that is, attached to a benzene ring, while the other is an alcoholic hydroxyl group. When the phenolic hydroxyl group is methylated, codeine is formed, with an increase in toxicity and convulsant action, but a decrease in analgesic effect and depressant action on the respiration. The free phenolic hydroxyl group in morphine appears to diminish the convulsant action and increase the depressant and analgesic effects. Increased analgesic activity results if the alcoholic hydroxyl group is removed. It has also been found that the addition of a hydroxyl group to phenanthrene, the

parent substance of morphine, increases the toxicity and depressant action, and produces a mild analgesic effect. The position in which the hydroxyl group is attached is important. The maximum effect is produced when the hydroxyl group is attached in the position of the phenolic group in morphine. Partial hydrogenation of the phenanthrene nucleus also increases the activity. In thebaine both hydroxyl groups of morphine are replaced by methoxyl (OCH_3) groups.

Morphine Derivatives.—Although an extremely valuable drug, morphine has certain drawbacks. It is a drug of addiction and there is not a great margin between the therapeutic and the toxic doses. Search has therefore been made for compounds having the advantages but none of the disadvantages of morphine; so far the search has not been particularly successful. As a narcotic, morphine still holds pride of place. Its derivatives and substitutes, if they have any narcotic action comparable to that of morphine itself, are habit-forming and dangerous in large doses. Although the structure of morphine is known, its synthesis has not been achieved, but it is possible to make derivatives from it and from chemically related alkaloids.

Codeine, or methylmorphine, relieves cough like morphine, and is rarely habit-producing, but has little analgesic action. Though it occurs naturally in opium, it is made by methylating morphine; over half the world's production of morphine is converted into codeine. Other morphine ethers have been prepared, such as ethylmorphine (dionin) and benzylmorphine (peronine), in which the ethyl and benzyl groups replace a hydrogen atom of the phenolic hydroxyl group in morphine. Ethylmorphine is employed in the form of a 5 to 20 per cent. solution to produce vasodilatation and oedema of the conjunctiva in the treatment of corneal ulcer and other inflammatory conditions of the eye. It is also used for the relief of pain and for coughs. Morphine also forms a number of esters, the acid radical replacing a hydrogen atom in the alcoholic hydroxyl group. They are mostly unstable compounds that produce actions in the body similar to that of morphine. The most important of these is diacetyl morphine or diamorphine (heroin), which resembles morphine in many respects, but has a greater action on the respiratory centre and is therefore of greater value in checking cough. It is not safer than morphine, actually producing addiction more readily, and it is four times as potent. A number of the morphine esters are known, e.g. benzoyl morphine, acetylpropionyl morphine, etc., but they are of no therapeutic importance. When morphine is heated with acids and dehydrating agents it loses a molecule of water and forms a new alkaloid, apomorphine. The properties of morphine are thereby considerably modified. Apomorphine retains the stimulant but loses the depressant action of morphine on the nervous system. It particularly excites the vomiting centre in the brain, and is therefore used as an emetic. Bulbocapnine, an alkaloid found in *Corydalis cava*, is closely related to apomorphine. It is 3 : 4 methylene dihydroxy-6-methyl-apomorphine, and is used to relieve tremor in certain diseases of the nervous system (paralysis agitans).

Substitutes for Opium Alkaloids.—An isomer of morphine, dihydromorphinone hydrochloride, known as dilaudid, has been introduced as a substitute for morphine. Chemically it differs from morphine in that the alcoholic hydroxyl group of the latter is replaced by a ketone group, and a double bond is removed by the introduction of hydrogen. This results in a more powerful but more toxic product. It is more analgesic than morphine and more effective in depressing the cough centre in the brain, while it is less constipating, produces less tolerance and less addiction. Dihydrocodeinone, or dicodid, is a substitute for codeine, from which it is obtained. It bears the same chemical relationship to codeine as dilaudid does to morphine, i.e. a ketone group replaces an alcoholic hydroxyl, and a double bond is removed by the taking up of two hydrogen atoms. Other codeine substitutes are dihydrohydroxycodeine (eukodal) and dihydrocodeine (paracodin). The ethyl ester of 1-methyl-4 phenyl piperidine carboxylic acid (dolantal) is a new synthetic product not related chemically to the opium alkaloids. It is claimed, however, that it has a powerful analgesic and spasmolytic action and can replace morphine in some conditions. Several papaverine substitutes have been prepared. Eupaverin is a synthetic product with a spasmolytic action equal to that of papaverine, but less toxic. Perparine, which is said to have a spasmolytic action greater than that of papaverine, is derived from the latter by replacing four methoxy groups by four ethoxy groups. Octon is a synthetic aliphatic base, methyl octenylamine, with a strong spasmolytic action.

TRADE REPORT

Spot quotations recorded for pharmaceutical chemicals, crude drugs and essential oils represent the prices for wholesale quantities of standard quality. C.i.f. quotations do not include marine war risk insurance and other abnormal charges payable in the present emergency.

28 Essex Street, W.C.2, August 27

BUSINESS on the London drug markets continues moderate. Fair demand for some products is being experienced from the home consuming trades, and values are generally steady. Conditions in PHARMACEUTICAL CHEMICALS are without substantial change, and steady business is being done. AMIDOPYRINE is steady, with business on the slow side. The spot position of HEXAMINE is unchanged, a fair business passing at full prices. As noted last week, British makers of POTASSIUM PERMANGANATE have altered their prices, those of B.P. quality being increased, and those of technical quality reduced; customers are asked to order technical quality whenever this meets their requirements; the early return of drums is also requested. Convention prices for SACCARIN and SANTONIN are unchanged. VANILLIN is steady at the recent advance.

Crude Drugs

Generally quiet conditions obtain in these markets, with the demand mostly for smallest quantities of spot goods. Prices are firm and show a tendency to rise. Some business continues to be done in AGAR, but as supplies are no longer obtainable from Japan it would appear to be only a matter of time before the present small stocks are exhausted. It will be remembered that in a recent report of an expert committee (C. & D., June 14, p. 349) agar was included in a list of drugs recommended to be produced in the United Kingdom. No supplies of home-produced agar have so far reached the market, though it is believed that progress has been made towards its production. There are still no forward offers of CURAÇAO ALOES. A further rise has occurred in the price of English-produced ANTIMONY. BALSAM OF COPAIBA is reported scarce. A brisk business is passing in BISMUTH METAL. BUCHU is quoted slightly easier on spot. JAPANESE CAMPHOR remains in poor supply, and high prices are asked for any small available stocks. CARDAMOMS is firm, with values at the higher levels recorded last week. Spot quotations for CASCARA SAGRADA are more or less nominal, and vary over a wide range; there are no offers of peel for shipment. CLOVES is firmer. A steady call is being maintained for DERRIS ROOT. All descriptions of GINGER are firm. Under a Ministry of Food Order, maximum first-hand, wholesale, and retail prices are fixed for imported HONEY. IPECACUANHA is firm, with supplies of both varieties limited. Chinese MENTHOL remains firm and in good demand, but supplies are inadequate and quoted at high levels. Steadier conditions now obtain in the PEPPERS markets. Lack of freight makes the forward position of RHUBARB one of some difficulty. SHELLAC is quiet. Spot quotations for medium grades of TRAGACANTH are at the levels recorded last week. Supplies of LIQUID EXTRACT OF WITCH HAZEL are becoming depleted, and, as import licences are apparently not being granted, the future position is uncertain.

Essential Oils

The demand for these products has been quiet, but values are maintained. ANISE (STAR) remains in short supply, but values are unaltered. SWEET ALMOND, B.P., is scarce. A small spot trade is passing in BAY, at unchanged figures. BOIS DE ROSE is firm, with values at the level recorded last week. Holders of CANANGA are very firm in their views. Quotations for English-made CLOVE are steady. Supplies of genuine West Indian LIME are restricted. PALMAROSA is firm. A fair spot business is passing in Chinese PEPPERMINT at high prices. Spot values of THYME are steady.

Exchange Rates.—The Shanghai dollar has remained at the figure of 31.5d. recorded last week. The following Bank of England fixed rates still apply: New York, \$4.03; Montreal, \$4.45; Lisbon, 100 escudos; Java, 7.60 florins; Buenos Aires, 17.02 paper pesos. The Madrid rate is 40.50 pesetas (official) and 46.55 (voluntary).

Pharmaceutical Chemicals

ACETANILIDE.—Remains quiet but steady. B.P.C. crystals and powder are quoted at around 2s. 5d. per lb.

AMIDOPYRINE.—Dealers' prices are steady at from about 30s. upwards per lb., as to quantity.

ATROPINE.—Makers quote as follows: ALKALOID, 21s. per oz.; 4 oz., 20s. 6d. and 25 oz., 20s. per oz. SULPHATE, 16s. 6d. per oz.; 4 oz., 16s.; and 25 oz., 15s. 6d. per oz. Bottles, under 5-gm. or 1-oz., corked, 3d.; stoppered, 5d.; 5-gm. to 25-gm. or 1-oz., corked, 3½d.; stoppered, 6d.; 25-gm. or 1-oz., corked, 3½d.; stoppered, 7½d.; 50-gm. or 2-oz., corked, 4d.; stoppered, 9d. each; 100-gm. and over, included in price; tubes, per 100, 5-gr., 10s. 6d.; 10-gr., 12s. 3d.; 15-gr., 14s.

BARBITONE.—Firm and unchanged. Dealers' spot quotations are at about 30s. to 33s. per lb., according to quantity.

BISMUTH SALTS.—Makers' prices for the two leading salts are as follows: CARBONATE.—1 cwt., 8s. 4d.; 28 lb., 8s. 7d.; 8 lb., 10s.; 4 lb., 10s. 9d.; under 4 lb., 11s. 3d. per lb. SUBNITRATE.—1 cwt., 7s. 3d.; 28 lb., 7s. 6d.; 8 lb., 8s. 8d.; 4 lb., 9s. 5d.; under 4 lb., 9s. 11d. per lb.

BORAX.—B.P. is quoted by makers as follows: Powder, £35 10s. per ton; crystals, £35 per ton; granulated, £34 per ton, in one-cwt. bags, carriage paid in Great Britain, for minimum one-ton lots. Commercial grades are quoted at £8 per ton less.

BORIC ACID.—Makers quote B.P. powder at £52 10s. per ton, crystals at £51 10s., and granulated at £50 10s. in one-cwt. bags, carriage paid in Great Britain, for minimum one-ton lots. Commercial grades, £8 per ton less.

CITRATES.—Makers quote as follows: POTASSIUM, B.P., 28 lb., 2s. 5d. 14 lb., 2s. 6½d.; 7 lb., 2s. 7½d.; 4 lb., 2s. 9½d.; under 4 lb., 3s. per lb. SODIUM, B.P., one penny per lb. under, and IRON AND AMMONIUM (SCALES B.P., threepence per lb. over above prices. Packages extra.

HEXAMINE.—Free-running crystals are quoted by dealers at around 2s. 3d. per lb., with other grades at lower prices.

MERCURIALS.—Controlled prices are unaltered. For full particulars see C. & D., August 16, p. 96.

POTASSIUM PERMANGANATE.—As noted last week (Coloured Supplement p. ix), the following prices came into force on August 19: B.P. quality, prices advanced; one cwt. upwards, 1s. 8½d. per lb.; three cwt. upward, 1s. 8d. per lb. Technical quality, prices reduced; 1-cwt. drums, per cwt. 1 cwt. upwards, 15s. 6d.; 3 cwt. upwards, 150s.; 5 cwt. upwards, 147s. 6d.; 1 ton upwards, 145s.; 4 tons upwards, 142s. 6d.; 5-cwt. drums per cwt., 5 cwt. upwards, 145s.; 1 ton upwards, 142s. 6d.; 4 tons upwards, 140s. 3d. Terms: Net, delivered nearest railway station in Great Britain drums extra and returnable. The minimum price for B.P. quality for any quantity is now 1s. 8d. per lb., for 3 cwt. or more. Customers are asked to order technical quality wherever it meets requirements. No guarantee of delivery of either quality is given, and orders are only booked for invoicing at price ruling at date of dispatch. The present charges for drums are: 1-cwt., 15s. each; 5-cwt., 25s. each, returnable for full credit if in good condition. Extreme difficulty of replacement is pointed out and return of drums at earliest possible moment is asked.

QUININE.—The sterling price for sulphate, based on American dollars, remains at £14 17s. 5d. per 100 oz., f.o.b. Java.

SACCARIN.—There is no change in the Convention price of 98s. 4d. per lb. for 550. Neither wholesale nor retail prices are officially controlled.

SANTONIN.—Home trade prices are as follows: 15 kilos and over, £46 10s.; not less than 10 kilos, £47 5s.; not less than 5 kilos, £48 5s. less than 5 kilos, £50 per kilo, delivered free in the United Kingdom 1-kilo packages free.

VANILLIN.—British makers' prices are steady: Ex clove oil or guaiac, five cwt., 19s. 3d. per lb.; one cwt., 19s. 6d.; 56 lb., 19s. 9d.; less than 56 lb., 20s., carriage paid in U.K. Tins in cases returnable.

Crude Drugs

ACONITE ROOT.—The spot price of Indian root, if available, would be in the region of 1s. 7d. per lb.

AGAR.—A fair demand continues for unrestricted material, and some business is reported done at 28s. per lb., with possible further supplies at this figure; small lots for medicinal use would be worth about 22s., and for bacteriological use only, about 17s. to 18s. per lb. would be required. All the above prices refer to Kobe No. 1 material.

ALOE.—CURAÇAO, for manufacturing purposes, remains in good demand but, in the absence of supplies, prices are nominal. No replies have been received to offers sent to origin.

ANTIMONY.—English regulus remains in good demand, and stocks are stated to be adequate. A further rise in price to £110 per ton, delivered for minimum 99 per cent. is notified. Foreign regulus is also quoted dearer at £100 10s. per ton, duty paid. Chinese, nominal.

BALSAMS.—Steady at the values given last week. Tolu, about 8s. 6d. per lb.; Canada, approximately 7s. 9d. per lb.; Peru, 7s. 3d. and 7s. 6d. per lb.; COPAIBA, B.P., scarce and much dearer, with spot holders asking 5s. 9d. to 6s. per lb.

BELLADONNA.—Forward quotations for Indian root and leaves remain at about 350s. per cwt., c.i.f.

BENZON.—Steady, with good inquiry received. Spot value of best quality would be in the region of £7 to £8 10s. per cwt., ex store, but sellers are few.

BISMUTH METAL.—Minimum 5-cwt. lots are quoted steady at one dollar 25 cents per lb. Business is fairly brisk.

BUCHU.—Good green rounds are now quoted on spot at the slightly lower price of 3s. per lb.; shipment, new-crop, unchanged at around 2s. 7½d. per lb. for f.a.q.

CAMPHOR.—Demand is good, but stocks are quite inadequate to meet requirements. Some cases of Japanese in second hands are reported offering at about 6s. 9d. to 7s. 9d. per lb. English refined, steady at follows: Flowers, one cwt., 7s.; 28 lb., 7s. 3d.; less than 28 lb., 7s. 6d. per lb. Transparent tablets, 1-oz.: one cwt., 7s. 6d.; 28 lb., 7s. 9d. less than 28 lb., 8s. per lb.

CANTHARIDES.—Little business is passing. Chinese, in small supply about 7s. to 7s. 3d. per lb., spot. Russian is not available.

CARDAMOMS.—Firm, with spot values at the slightly higher level recorded last week. Spot, Bombay seed, about 5s. 6d. per lb.; Mangalore seed, about 5s. 3d.; Aleppy greens, about 5s. 3d. per lb.

CASCARA SAGRADA.—Spot remains firm, with available supplies small. Quotations, which are more or less nominal, vary from 145s. per cwt. to 180s. per cwt., duty paid. There are no offers of shipment peel.

CHILLIES.—Supplies are not plentiful, and the high prices recorded recently are maintained. Spot, Mombasa, 165s. per cwt., sellers; Sierra Leone, 160s.; Sudan, 160s., duty paid.

CLOVES.—Again firmer, with spot values of Zanzibar at about 2s. 1½d. per lb.; grade 2, afloat, is quoted at 1s. 11d. per lb., c.i.f. Madagascar, in bond, unquoted.

DERRIS ROOT.—Conditions are much the same as last week, with good none-testing root in fair demand. Spot prices are as follows: 4-5 per lb. rotenone, about 1s. 4d. per lb.; lower testing material, about 1s. 3d. per lb.; 15-9 per cent. ether extract, tested, about 1s. 1d. per lb.; and 9 per cent., about 1s. 2d. per lb.

DRAGONS BLOOD.—Firm, with dealers quoting re-boiled at approximately £30 per cwt., ex store.

EGROT.—New-crop Portuguese is now quoted at about 6s. 9d. per lb., f. Spot would be in the region of 8s. 6d. per lb.

GINGER.—All descriptions remain firm. West African, spot, 170s. per cwt., buyers; afloat, 150s., c.i.f. Cochín, unwashed, afloat, 150s., c.i.f. naica, spot, 185s. per cwt., buyers.

GUM ACACIA.—Spot quotations for Kordofan cleaned sorts are now in the region of 165s. to 170s. per cwt., nominal; shipment, about 70s. per cwt., f.; bleached, spot, from 320s.

HENBANE.—Forward quotations for Indian remain at about 350s. per cwt., c.i.f.

HONEY.—A Ministry of Food Order (S. R. & O., 1941, No. 1242), which came into force on August 25, fixed maximum prices for imported and home-produced honeys. First-hand, wholesale, and retail prices are fixed for imported honey and maximum retail prices are fixed for home-produced honey, as follows:

Description	First-hand sale		Sale by wholesale		Sale by retail			
	Per doz. containers each containing		Per doz. containers each containing		Per container containing		Per container containing more than 1 lb. at net rate per lb. of	
	½ lb.	1 lb.	½ lb.	1 lb.	½ lb.	1 lb.	½ lb.	1 lb.
Imported	9 3	15 6	10 2	17 0	1 0½	1 9	1 9	1 9
Home-produced extracted, other than heather ..	—	—	—	—	1 8	2 9	2 3	2 3
Home-produced extracted heather ..	—	—	—	—	2 0	3 6	3 0	3 0

PECACUANHA.—The spot price of Matto Grosso remains firm at about 100s. per lb., but supplies are becoming depleted. The price from origin would be about 15s. 6d. to 16s. 6d. per lb., c.i.f., with re-sellers at about 16s. 6d. Minas, in limited supply on spot at about 12s. 6d. to 13s. per lb.; shipment, about 11s. 9d. to 12s. 3d. per lb., c.i.f.

LABORANDI.—Spot quotations are in the region of 85s. per cwt., ex store.

LOBELIA HERB.—Spot, in poor supply, about 2s. 6d. per lb.

MENTHOL.—Chinese, firm and in good demand, with spot business done 50s. per lb.; a few odd cases may still be available at about 50s. to 51s. 6d. per lb. Orders sent out to China at around 30s. per lb. are understood to have brought back quotations at 40s. per lb., c.i.f. A few odd cases of Japanese are still available on spot at approximately 52s. 6d. per lb.

MERCURY.—Open-market business remains restricted. Official prices range between £47 15s. and £48 15s. per bottle of 76 lb., ex warehouse.

NUTMEGS.—Values are steady at recent levels: Eastern browns, 65's, 4d. per lb.; 80's, 2s. 2d.; West Indian, sound unassorted, 1s. 9d.; 80's, 2s. 2d.; 90's, 2s.; wormy and broken, 1s. 7d., nominal.

ORANGE PEEL.—The spot value of bitter quarters would be in the region of 2s. 6d. per lb.; thin-cut, if available, would be worth about 4s. per lb.

PEPPERS.—Steadier conditions obtain in these markets, with prices up level on the week. Lampong, spot, in bond, 9d. per lb., value; litcherry, spot, 9½d., value; Aleppy, spot, 9½d., nominal. White Muntok, adier, spot, in bond, 1s. 5d. per lb. paid; shipment, August-September, unquoted.

RHUBARB.—The spot value of rough-round is now in the region of 9d. to 6s. 6d. per lb., according to quality and soundness; rough-coat high-dried is available at about 6s. 6d. to 7s. per lb. Forward offers coming in at about 4s. 4½d. to 5s. per lb., c.i.f., but lack of freight is difficulty. Shensi, spot, about 8s. 9d. to 9s. per lb., according to quality.

RUBBER.—Quiet and unchanged. Official quotations for standard bed smoked sheet are as follows: Spot, 13½d., buyers; 13½d., sellers; prompt, September-December, 13½d., buyers; 13½d., sellers; January-March, 13½d., buyers; 13½d., sellers.

SEEDS.—ANISE.—Bulgarian or Turkish, spot, duty paid, 155s. CANARY. Nothing available on spot. CARAWAY.—Dutch, spot, nominal, 300s., duty paid. CORIANDER.—Morocco, spot, nominal at 160s., duty paid; Indian, sold at 150s., duty free, ex store Hull. CUMIN.—Malta, spot, 150s., duty free, ex store Hull; Indian, quoted at 130s., duty free. DILL.—Indian, spot, 90s., nominal. FENNEL.—Indian, spot, 85s., duty free, ex store Hull. FENUGREEK.—Morocco, spot, quoted at 57s. 6d., duty paid; business reported done at 55s. MUSTARD.—English, 107s. 6d. to 5s., according to quality.

SENEGA.—Position remains difficult. Some business reported done, sellers' licence, at 4s. 10d. per lb., c.i.f. Spot, firm and unchanged at about 6d. per lb.

SENNA.—Firm. Tinnevely, spot, supply small. No. 1 leaves, 10d. per lb.; No. 2 leaves, 6½d.; No. 3 leaves, 5d. per lb. Hand-picked Tinnevely ds, if available, about 1s. 6d. per lb.; manufacturing pods, 9d. to 10d. per lb. Alexandrian hand-picked pods, a few small lots available at 4s. to 6d. per lb.; manufacturing quality, 1s. 6d. to 1s. 9d. per lb.

Exports of senna leaves and pods from Southern India during the second half of 1940 amounted to 1,661,701 lb., valued at Rs.254,676.

SHELLAC.—Quiet. Standard TN orange, spot, 162s. 6d. per cwt.

sellers; shipment, 157s., sellers, c.i.f. Fine orange, spot, 170s. to 210s., pure button, 190s. per cwt.

SLIPPERY ELM BARK.—Grinding quality on spot would be worth around 1s. 2d. per lb.; wired bundles are quoted at 2s. 1½d. per lb.

SQUILL.—Small supplies of Indian are quoted by dealers on spot at about 110s. per cwt., ex store.

TRAGACANTH.—Spot quotations for medium grades are at the levels recorded last week: No. 1, white, £145; No. 2, white, £130; No. 3, white, £110; pale leaf, £90; amber leaf, £65; red leaf, from £30; woody and hogg, from £10 to £17, ex store.

TURMERIC.—Madras finger, spot, sold at 80s. Powdered, quoted at 110s. per cwt.

VALERIAN ROOT.—The spot value of supplies of Indian root would be approximately 150s. per cwt., ex store.

WAXES.—Business fair, values unchanged. BEES'.—Spot, 250s.; in bond, 225s.; Dar-es-Salaam, nominal at 210s. Japanese, first three brands, spot, duty paid, 205s. CARNAUBA.—Spot, fatty grey, 435s.; chalky grey, 430s.; Primeira, 535s.

WITCH HAZEL (LIQUID EXTRACT).—Supplies are becoming depleted and spot values are now nominal at about 10s. 6d. per Imperial gallon, duty paid. It is understood that import licences are not being granted.

Essential and Expressed Oils

ANISE (STAR).—Spot material in short supply, at a price, for tins in cases, of about 18s. 6d. per lb.; drums, about 18s.

BAY.—Small spot trade, with values in the region of 8s. to 9s. per lb., ex store.

BOIS DE ROSE.—Spot price remains firm at approximately 18s. 6d. per lb.

CAJUPUT.—Spot demand small. Dealers would require at least 8s. per lb., ex store, for spot.

CANANGA.—Small spot business at firm prices around 32s. 6d. to 37s. 6d. per lb.

CEDARWOOD.—Spot values are firm at between 3s. 3d. and 3s. 6d. per lb., according to quantity.

CINNAMON LEAF.—Inquiry poor, but spot values firmly maintained at fully 8s. per lb.

CLOVE.—Quotations for English-made B.P. oil are steady at about 16s. per lb.

EUCALYPTUS.—Position shows no change on the week. Spot steady at about 4s. to 4s. 6d. per lb. for 70 to 75 per cent., according to holder, and about 4s. 6d. to 4s. 9d. per lb., for 80 to 85 per cent.

GERANIUM.—Some occasional inquiry is being received. Both Bourbon and Algerian oils are nominal on spot, and prices would be a matter for negotiation.

GROUNDNUT.—Present controlled price of large bulk quantities of refined deodorised is £40 per ton, naked ex works.

JUNIPER BERRY.—Dealers' quotations are steady at around 30s. per lb. for limited quantities, ex store.

LAVENDER.—A small spot business is passing, and the price is steady at about 80s. per lb. for good-quality oil.

LEMONGRASS.—Steady at last week's quotation of 14s. to 15s. per lb., according to quantity, for spot.

LIME.—Genuine West Indian is in short supply, but spot prices are unchanged at about 32s. to 34s. per lb.

MANDARIN.—Supplies are restricted and spot prices would be a matter for negotiation.

MUSTARD.—British-made synthetic oil is offered at around 20s. per lb.

NUTMEG.—Small quantities of good-quality oil would be worth about 26s. to 28s. per lb.

ORANGE.—There is no further change in the shipment price of Californian sweet which at present shows a lay-down cost of 10s. 6d. per lb. Prices of Rhodesian and other grades would be a matter for negotiation, about 30s. per lb. being mentioned as a suitable basis.

PALMAROSA.—Firm, with oil available on spot at in the region of 32s. 6d. per lb.

PATCHOULI.—Spot prices of both Singapore and Seychelles oils would have to be negotiated, with about 50s. per lb. as a basis.

PEPPERMINT.—Up to last week offers from China were coming in at 12s. per lb., c.i.f., subject to import licences being available; orders sent out at this price have now brought back replies that source is not prepared to offer at present. Fair business has been done on spot, at 50s. per lb., and 52s. 6d. is now asked.

PETITGRAIN.—Spot values are nominal at approximately 18s. 6d. per lb.

SANDALWOOD.—Genuine East Indian Mysore, in one-case lots, is quoted at 25s. per lb.

SASSAFRAS.—Holders of spot stocks of genuine natural oil would require about 14s. per lb.

SPEARMINT.—American oil, if available, would be worth about 22s. 6d. per lb. on spot supplies.

THYME.—Spot values are steady, with small inquiry. Spot, about 14s. per lb. for good quality; other grades would be cheaper.

WINTERGREEN (GENUINE).—About 11s. 6d. to 14s. per lb. would be the present price required by dealers for spot supplies.

WORMSEED.—Supplies are limited, but spot values are unchanged at approximately 23s. per lb.

INSURANCE ACT DISPENSING

Banffshire.—During the year to July 1, there were 1,588 fewer persons on the Insurance Committee's register than for the year to July 1, 1940, the totals being 16,957 and 18,545. During 1940 drugs costing £1,958 were supplied on 27,886 prescriptions to 17,466 persons at an average cost per person of 25.21 pence.

Worcestershire.—At a recent meeting of the Insurance Committee, the medical service subcommittee reported on the case of a young man who became a drug addict and, it was alleged, had altered his panel doctor's prescriptions so as to obtain large quantities of morphine tablets. Two members of the Committee thought the chemist concerned should have been interviewed, as he had allowed the drugs in unlimited quantities. It was reported that the number of insured persons on the register was 159,037, which was the highest figure they had attained. The increase was 1,501 since April 1 and 2,069 since July 1 of last year, this despite the fact that 12,000 had joined the Forces.

Increase in Doctors' Panel Fee.—An offer by the Ministry of Health to increase the capitation fee for medical practitioners under the National Health Insurance scheme from 9s. to 9s. 9d. has been accepted, under protest, by representatives of local Panel Committees. By ninety-seven votes to seventy-nine the following resolution was passed:

That this Conference, in view of the national emergency now existing, cannot do otherwise than accept the Minister's offer of a capitation fee of 9s. 9d., but in doing so wishes to record an emphatic protest against

(1) The inadequacy of the offer, and

(2) The fact that a new group of insured persons has been admitted to insurance without previous consultation with the profession.

... and their acceptance is without prejudice to the consideration of their claim to a satisfactory increase in the basic capitation fee, and without prejudice to their claim to a cost-of-living increase when such increase is given to comparable sections of the community.

Staffordshire.—A special meeting of the Insurance Committee held on August 18 ordered a panel doctor to refund the sum of £23 12s. 6d. to a patient on account of drugs supplied. The report of the medical service subcommittee stated that the patient suffered from myasthenia gravis. The doctor issued a private prescription for the purchase of phials of prostigmin for injection, and oral tablets of prostigmin substance, informing the insured person that he (the doctor) was not able to issue insurance prescriptions as the drugs in question were not included in the National Health Insurance prescribing list. The chairman stated that the drug prescribed was expensive and rare, but had the doctor been in any doubt about his authority to prescribe it, he could have soon found out from the Committee's clerk. Dr. L. Lowe said that, when he had been uncertain whether or not he would be in order in prescribing certain medicines for panel patients, he had been in the habit of consulting his chemist. That he had taken the safe course was shown by the fact that he had never been surcharged. The chairman said that, in fairness to the doctor concerned, it should be pointed out that the drug was so rare that the doctor had had to visit the chemist and tell him all about it. Dr. Lowe pointed out that the drug was not exactly little known. It was no more rare than Epsom salts were. It was a proprietary preparation and any doctor could get it. Mr. R. Cope said that nineteen out of every twenty chemists would be aware of the drug.

County of London.—The annual report for 1941 of the Pharmaceutical Committee of the County of London records that regular meetings of the full Committee and of the war-emergency subcommittee have been held during the year. The Committee has given its constant attention to the difficulty in obtaining supplies of certain drugs and medicaments. At the instigation of the Minister of Health a Committee has been set up to give guidance to doctors and pharmacists regarding the use of drugs that are not sufficiently essential, and to compile a war-time Formulary, which it is anticipated will be published shortly. A systematic survey has been made throughout the County to ascertain the number of pharmacies demolished or closed through enemy action or owing to war conditions.

PRESCRIPTIONS AND COSTS

The following are comparative figures for the years 1939 and 1940:—

	1939	1940
Total prescriptions	8,663,641	7,517,192
Cost of ingredients	£148,465	£160,857
Dispensing fees	£156,471	£138,720
Average total cost per prescription	8.45d.	9.56d.
Total number of persons on list	1,902,249	1,810,522
Average number of prescriptions per person	4.55	4.15
Average cost per person	38.74d.	39.71d.

INGREDIENT COSTS AND FEES

Rising ingredient cost is shown by the statistical data for the first quarters of the years 1936 to 1941:—

	1936	1937	1938	1939	1940	1941
Ingredient value	3.48d.	3.47d.	3.77d.	3.67d.	4.74d.	5.68d.
Dispensing fee	4.40d.	4.43d.	4.36d.	4.42d.	4.63d.	4.43d.

The Committee obtained certain information from a number of Panel chemists in the London area and submitted to the N.P.U. certain suggestions designed to assist them in approaching the Minister of Health with a view to securing increased dispensing fees.

CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

London Region Salvage Drive.—Now, more than ever before, there is need for salvage is urgent, particularly for waste paper of every type. Quantities of old correspondence files, price lists, labels, wrappings, cartons and display material accumulate over many years, which for one reason or another have become obsolete. They may have been forgotten or kept in case they may come in useful some day. The country needs that material and needs it now. I therefore appeal to all your readers to go through any stocks of paper or card, and their old records, to see how much can be turned over to salvage. Records of past business, bound or loose trade papers, ledgers, directories, etc., will make a grand contribution to the common cause. Nothing is too little—the paper of one old envelope will make a cartridge wad—and the country wants it all. Any such material will be collected by your usual merchant or the local Council.—H. G. Jud Salvage Department, Ministry of Supply (Code H.A.), London, S.W.1.

Education of Pharmacists.—With the division of the Qualifying examination into two parts, some candidates took the first part before apprenticeship, and I consider this a step in the right direction. Indeed I think it should be compulsory, as the subjects are academical and constitute a continuance of scholastic study. I am less sure that the idea—which seems to be gaining support (*C. & D.*, August 23, p. 100)—that the whole of the Qualifying examination should be passed before entering indentures is a sound one. For one thing, as the second part of the examination includes practical pharmacy and dispensing, a candidate would probably have better practice and experience during apprenticeship than he could gain at a college—or, at any rate, more opportunity of becoming proficient by repeated practice. My preference would be for a course comprising preliminary education certificate, Intermediate examination, apprenticeship, and finally Qualifying examination (including a short business paper), followed by a certain period as assistant before award of a certificate which would entitle the holder to become a manager-proprietor.—*Minorite* (23/8).

The Fate of the Stamp.—"Xrayser," in "Topical Reflections" (*C. & D.*, August 23, p. 100), says he fails to see that the fate of the medicine-duty stamp, following repeal, is any concern of the general public. Whether the fate of the stamp is the concern of the customer or not depends entirely on the supposed incidence of the tax. If it was intended original to be a tax on the consumer, then undoubtedly it is his concern, and repeal of the duty should lessen the cost to the public by that amount. If, on the other hand, it was a tax on the manufacturer in payment for the privilege to sell a "patent" medicine without disclosing its ingredients, then equally it should come off both the wholesale and retail prices, the manufacturing costs are reduced by the value of the stamp. To go back to first principles, it was laid down that a duty was imposed at the rate of twopence on goods to the value of a shilling. The principle has been obscured, almost reversed, by allowing manufacturers to initiate the "destamping" system. Chemists allowed themselves to be exploited at their concession usurped to such an extent that manufacturers refused to supply chemists with stamped articles, even when these were definitely ordered. Now the difficulty will be to adjust wholesale and retail price to be fair to all concerned, and at the same time to comply with the requirements of the Prices of Goods Act.—*Percenter* (23/8).

MISCELLANEOUS INQUIRIES

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them

Denture Cleanser.—*I. T.* (25/7).—The following recipes for denture cleansers are taken from "Pharmaceutical Formulas":—

- (1) Sodium bicarbonate 2 oz.
Sodium perborate 2 oz.
Liquefied phenol 11 x.
Thymol 1 gr.
- (2) Borax 4 oz.
Sodium perborate 2 oz.
Menthol 10 gr.

Dissolve a teaspoonful in a tumblerful of hot water and allow the denture to remain in the solution as long as convenient, then cleanse with a brush. One of the best detergents so far put forward is the following powder:—

- (3) Borax 20.0
Potassium chlorate 8.0
Sodium perborate 10.0
Sodium benzoate 5.0
Sodium chloride 2.0
Menthol 0.5

A little is placed in a tumbler of hot water with the denture and allowed to stand from three to five minutes, then the denture is brushed in the usual way with warm water.

Therapeutic Value of Cobalt.—*D. M.* (18/8).—Cobalt is similar to nickel in its pharmacological properties. One of the principal properties of cobalt is the stimulation of the hæmopoietic system which follows the parenteral administration of very small amounts. There is an increase of about 20 per cent. in both the erythrocyte count and in hæmoglobin. The mechanism of cobalt polycythemia is believed to be the direct result of stimulation of the bone marrow, as it is preceded by reticulocytosis. Cobalt apparently does not stimulate leucocyte production. In a study of the trace elements necessary for the treatment of milk anæmia of rats it was found that cobalt was not essential for the regeneration of hæmoglobin.



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good work
goes on!**

Thank you for your co-operation

SevenSeaS trawlermen are still carrying on—taking big risks to bring their cargoes home. They are helping Britain magnificently, and we thank you for backing them up so well. Placing your winter-season orders in advance has lessened our distribution difficulties considerably. But these difficulties still exist; transport is bound to be hampered this winter.

Have you a reserve to fall back on?

Are your stocks sufficient to meet a sharp sales increase? If not, we earnestly advise you to place your order now. Otherwise, delivery hold-ups may prevent supplies reaching you in time for the season's start. We want you to have your full share of the increased business that will

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IN STOCK &/OR AFLOAT

ACONITE ROOT	HENBANE LEAVES
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27 OLD BROAD ST., E.C.2. Kel: 2737/8 & 6186/7

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Specify **"CARNEBROS BRAND"** British made

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IMPORTANT

We regret to have to advise our many friends that our city offices were recently completely demolished by enemy action. We have, however, made complete arrangements to carry on from our works address, and future enquiries should be sent to:

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VICTORY WORKS, 83/84 EASTWAY, HACKNEY WICK, LONDON, E.9
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Chemicals
**PHARMACEUTICAL
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ACIDS
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Sold in 6^{D.} PACKETS
TRADE PRICE **57/-** PER GROSS
Cash with Order
Packed in 6 dozen lots

Manufactured by
MORLEY ROGERS & CO. LTD., 290 KINGSTON RD, MERTON PARK, LONDON, S.W.

“

SEVILA

”

*The Perfect Substitute for Oranges***BUT YOU CAN SELL
“SEVILA”****THE PERFECT SUBSTITUTE**

- ★ SEVILA is not just another orangeade—it is the perfect alternative for oranges and should be used for all purposes where fresh orange juice is required, i.e. cooking, making cakes, puddings, sauces, drinks, etc.
- ★ SEVILA contains Vitamin C, Glucose, Vitamin D, Calcium and Phosphorus, which are essential energy-giving food properties extremely valuable to all war workers.
- ★ Packed in powder form each 6d. packet equals the juice of four fresh oranges.
- ★ Sweetened ready for use.
- ★ $\frac{2}{3}$ teaspoonful of powder dissolved in 8 teaspoonfuls of cold water is equal to the juice of one orange.
- ★ National advertising now appearing—display material available.

**BOX'S PILLS BRING VICTORY
OVER INDIGESTION, AND PROFIT
TO YOU**

A writer has said that to avoid indigestion in these troubled times one has to be young or tough, or both... but there is another way of doing so and many of your customers have practised it for 50 years

**BOX'S
INDIGESTION
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BOX'S PILLS have always sold well, and are now in BRISKER DEMAND THAN EVER BEFORE!

NEW PRICES

1/3, 3/6, 4/10½, 12/- and 21/9

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We Ship

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LOWER price to **PUBLIC!**
MORE profit for **YOU!**
UNRESTRICTED SALES!
ADVERTISING *remains at same large scale!*

A rapid selling line becomes a record-breaker! At its new, lower price CURICONES will sell even more quickly, make even more profit for you. The same volume of advertising

will back this famous Rheumatic remedy . . . and, remember, the Limitation of Supplies Order **DOES NOT APPLY TO CURICONES**. You can sell as many as you can find customers for.

You sell the old	You buy at	Your profit is
5/- line at $4\frac{1}{6}$ <small>(PLUS 6d. TAX)</small>	3/- (36/- doz.)	$1\frac{1}{6}$
14/- line at $12\frac{1}{7}$ <small>(PLUS 1/5 TAX)</small>	8/5 (101/- doz.)	$4\frac{1}{2}$
24/- line at $21\frac{1}{7}$ <small>(PLUS 2/5 TAX)</small>	14/5 (173/- doz.)	$7\frac{1}{2}$

YOU MAKE A CLEAR 50% ON YOUR PURCHASE PRICE
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More than ever before CURICONES can now help you to bridge the gap between your pre-war turnover and your present-day receipts. Almost every customer you have

is a sufferer from Rheumatic Ailments of some kind. Keep CURICONES well displayed. Keep ample stocks and from now on make CURICONES your "bread-and-butter" standby.

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SELF-SEALING CAPSULES

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These quality closures give an attractive finish to any pack and ensure hygiene and security. Can be supplied wet or dry, in transparent or opaque quality, in almost any shade. They are the original self-shrinking Viscose seals.

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Retail prices—
20's 3/4½, 60's 8/5½,
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Trouble in the Hair...
**WHEN CHILDREN GET THEIR
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Education authorities and Child Welfare Officers who have to deal with cases of infestation by disease-carrying head and body vermin, are finding a scientifically sure, safe, speedy remedy in DERBAC SOAP.

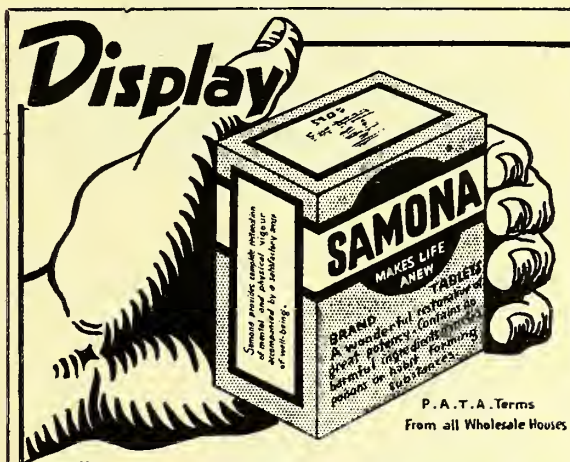
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**NERVE STRAIN
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(from 2nd September, 1941)

3½^D 6½^D 1'3½^D 2'6½^D
(5 tablets) (10 tablets) (27 tablets) (60 tablets)

Prices to the public remain as hitherto in
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Chemist's Profit Margin Maintained FULL PROTECTION AGAINST LOSS

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Great Public Demand Anticipated!

MAKE SURE YOU CARRY ADEQUATE STOCKS

The present high level of 'ASPRO' sales makes it very clear that the autumn and winter will see a new record of public demand. We would urge you to make sure that you carry adequate stocks at all times to safeguard you against loss of sales if transport difficulties or any unforeseen causes should delay the delivery of your 'ASPRO' order for a few days.

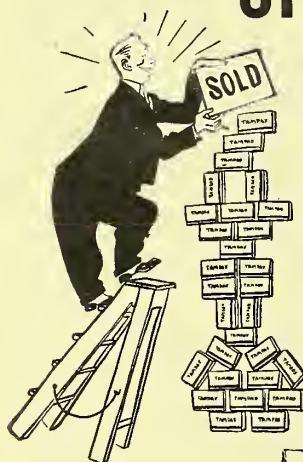
WINDOW DISPLAY MATERIAL. Striking 'ASPRO' display material is still available to you on request but in view of the impossibility of renewing our supplies it is most important that every showcard is put to the best possible use; that is by showing it as prominently as possible and making it last as long as possible. We invite your co-operation in this respect.

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★ In selling Tampax you are handling a line that has the endorsement of doctors and the recommendation of matrons and nurses. It is a safe, certain, serious selling line with a non-stop profit. (A fine sales maker for other reputable lines as well—give it a front place in your display and see!)

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★ PACKETS OF 6	Wholesale 10/6 DOZ.	Retail 1/2 PACKET
★ PACKETS OF 10	Wholesale 15/9 DOZ.	Retail 1/9 PACKET
★ PACKETS OF 40	Wholesale 54/- DOZ.	Retail 6/- PACKET

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THE POPULAR LAXATIVE
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"SURE-SHIELD" IODISED THROAT TABLETS

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A distinctive
Winter Lozenge
prepared with
Aromatic Gums,
Palatable, De-
mulcent and
soothing

A WONDER-
FUL LOZENGE
FOR REPEAT
SALES



THE PACK & DESIGN MAKE AN OUT-
STANDING WINDOW OR COUNTER
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MANUFACTURING CHEMISTS
CARRUTHERS ST., MANCHESTER 4
London—15-16 Jewry St., E.C. 3

The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2

AUGUST 30
1941

IMPORTANT TO SUPPLEMENT ADVERTISERS

Instructions for supplement advertising are now accepted in London and at Bath. London press times have been advanced to first post WEDNESDAY morning of week of issue but instructions will still be accepted up to first post THURSDAY morning if sent to Bath. Advertisements received after these times will be inserted the following week.

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A successor is required to the Head of the Home Department who is retiring shortly. He should have the ability and experience that will enable him to combine to the best advantage up-to-date methods and outlook with the Company's long tradition for the highest ethical standards of marketing and manufacture. He should be familiar with sales planning on modern lines, and be able to control a large staff of both professional and trade representatives. A pharmaceutical qualification is a *sine qua non*. The position is permanent, progressive and pensionable (contributory scheme). Commencing salary according to qualifications and experience. Applications, which will be treated in the strictest confidence, should include full particulars of education, experience, age, when free and remuneration expected. They should be addressed to the Distribution Director, Burroughs Wellcome & Co., 183-193 Euston Road, N.W.1, and marked "Home Sales Manager" in the top left-hand corner.

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Write in confidence in first instance to

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56 GAMAGE BUILDINGS
LONDON, E.C.1

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Particulars—

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50 HIGH STREET, BARNET, LONDON, N.

TOILET ROLLS

Fitting all holders, packed gross boxes, minimum 2 gross.

Apply for sample and offer to

BRITISH UNICORN LTD., 122 LONDON WALL, E.C.2

SITUATIONS OPEN

RETAIL (HOME)

BUCKINGHAMSHIRE. Registered Chemist, over 30, required for duration, high-class old-established country business with dispensing, N.H.I. and county family trade. Active and trustworthy. No Sunday or half-holiday duties. Give particulars when available, age, salary required, to Cox & Robinson, Ltd., Stony Stratford.

DAGENHAM. Manager wanted for working class Dispensing business. Must be used to N.H.I. and quick counter. Prospect of permanent management. Salary five guineas per week. House available. CDB/709, London Office of this Paper.

DORCHESTER, Dorset. Capable Assistant required for Dispensing to replace assistant joining Royal Air Force. Immediate vacancy, but can wait suitable applicant. Salary £4 to £4 10s. according to experience, plus bonus payable annually. Apply with full details of experience, together with snap or photograph (returnable). E. C. Clark, Chemist, The Rexall Pharmacy, 52 South Street, Dorchester.

LONDON, W.5. Unqualified Assistant required now. Dispensing, Counter and Window Dressing. Apply Brucers', Ltd., 28 Broadway, Ealing, W.5.

NORTHAMPTON Chemist requires Qualified Assistant, M.P.S. Congenial position, good conditions. Suit lady. Write CDB/706, London Office of this Paper.

OXFORD. Qualified Manager required. Fully experienced and good Dispenser. Living accommodation available. Particulars of age, salary, references, etc., and photograph (returnable) to Bellamys, Dispensing Chemists, Ltd., 22A Merton Street, Oxford.

SLOUGH, Bucks. Pharmacist over military age required to manage good main road cash business. Must be good at display. Write CDB/707, London Office of this Paper.

ASSISTANT required for high-class Pharmacy. Congenial permanency. Lady or gentleman, qualified or unqualified. Send particulars, date free, testimonials, salary, and snapshot. Raymond Smith, 2 Cliff Road, Newquay, Cornwall.

CAPABLE Unqualified young lady Assistant required to commence September 22, to replace lady leaving to qualify. Dispensing, Counter and Window-display, with some knowledge of Toilet and Photographic Goods. Please state experience, age, and salary required. Fairfax Fearnley, Ltd., Chemists, Manor Square, Otley, Yorks.

PHARMACY. Qualified and unqualified Assistants, male or female, required. Must be experienced in Pharmaceutical and General shop trade. Write stating age and experience to the Staff Manager, R.A.C.S., Ltd., 113 Powis Street, Woolwich, S.E.18. Endorse envelope "Pharmacy."

QUALIFIED Assistant, exempt military service, with good dispensing and retail experience. Apply with age, height, experience, when free and salary required to Brady & Martin Ltd., 29 Mosley Street, Newcastle-upon-Tyne, 1.

QUALIFIED Assistant (lady or gentleman). Good class business centre provincial city, safe area. State age, experience and salary required. Edmund Jones, Central Pharmacy, Miles Bank, Hanley, Stoke-on-Trent.

QUALIFIED Chemist required. Suitable opening for elderly man. Easy post, good conditions, West End. Write 387/213, London Office of this Paper.

QUALIFIED Assistant required. Suitable for active, elderly man, or lady. Working-class area, near Sunderland. Send, full particulars, including salary. CDB/702, London Office of this Paper.

QUALIFIED Assistant wanted (either sex). Permanency, easy hours, branch shop. Elderly man not objected to (sober habits). No Sunday or holiday duty. Full particulars, age, salary, to Slaughters (Chemists), Ltd., 351 High Road, Ilford, Essex.

QUALIFIED Branch Managers wanted for permanent positions in London. Good prospects. Apply 386/198, London Office of this Paper.

QUALIFIED required at Ilford, Essex, either sex. Light Dispensing duties, good toilet and general trade. Easy hours; no Sunday or half-day duties. Permanent position. Apply, in writing, CDB/705, London Office of this Paper, or phone VAL. 5790 after 7.30 p.m.

QUALIFIED Gentleman or Lady, exempt military service. Dispensing and Counter; light duties, permanency for suitable applicant. Full particulars, age, salary expected, references and when free to commence. 387/220, London Office of this Paper.

STONHAM & SON of Maidstone require a Dispenser (lady or gentleman). Please state age, experience and salary required in first letter to 70 Bank Street, Maidstone. Phone 3060.

TAYLORS BRITISH CHEMISTS have several vacancies for Managers at branches in South Yorkshire. Applications are invited from qualified Pharmacists with good experience of busy store trade and Health Insurance Dispensing. Permanent employment with excellent prospects. Apply by letter to Retail Staff Manager, Taylors British Chemists, Claremont Barn, Claremont Lane, Esher, Surrey.

TAYLORS BRITISH CHEMISTS require the services of several competent women Pharmacists as qualified Assistants in the London area. Applicants should have a good knowledge of Health Insurance Dispensing and will be considered for promotion to management if found suitable after training. Apply by letter giving full particulars to Retail Staff Manager, Taylors British Chemists, Claremont Barn, Claremont Lane, Esher, Surrey.

TIMOTHY WHITES & TAYLORS. Applications are invited from experienced Pharmacists for vacant management in the following localities—Sudbury (Suffolk), Hornchurch, Herne Bay, Isle of Wight, Dartford, Barnet, Portsmouth and Southampton. Excellent conditions. Suitable applicants will be appointed to permanent staff. Apply by letter to Retail Staff Manager, Timothy Whites & Taylors Ltd., Claremont Barn, Claremont Lane, Esher, Surrey.

UNQUALIFIED Assistant (male), age about 45, single, wanted by Chemist in reception area (South Midlands) for Front Counter and Relief Dispensing. Permanency. Apply with full particulars, photograph, if possible, stating salary required. Applications not answered in a fortnight respectfully declined. 387/221, London Office of this Paper.

UNQUALIFIED Lady Assistant (or exempt man) for Family and Dispensing business. Apply personally or by post, giving details of experience. Ingham, Chemist, 19 Upper Tooting Road, S.W.17.

UNQUALIFIED Assistant required (male or female). Dispensing and Counter. Good hours and conditions. State age, salary required, and when free, to Manager, Pharmacy Department, Ipswich Industrial Co-operative Society, Ltd., Carr Street, Ipswich. Endorse envelope "Unqualified Assistant."

WANTED. Qualified Manager for Agricultural Business—Live on Premises. Early September. 386/194. London Office of this Paper.

£5 10s. 0d. a week. Pharmacist Manager required for Ilford, Essex. Must be capable of running a good class store business. Possibility of living accommodation. Write CDB/708, London Office of this Paper.

VACANCIES FOR LOCUMS

QUALIFIED Locum required urgently September 1. One week. Salary £6; fares paid. J. O. Bond, M.P.S., Broadfield, Somerton, Somerset. Phone: Somerton 65.

UNQUALIFIED Locum for two weeks from September 8. Apply, stating age, experience and salary required. H. M. Harvey, 3 Beeches Avenue, Carshalton.

WHOLESALE

COSTING Clerk required (male or female). Permanent position. Apply to C. R. Harker, Stag & Morgan Ltd., Emmott St., Mile End, London, E.1.

INVOICE Clerk required for London Wholesale Druggists. Write, stating experience, etc., 365/381, London Office of this Paper.

MANUFACTURING Chemists require qualified bulk Dispenser (male or female) for general Pharmaceuticals, Bolton area. Full particulars and salary required first letter. please. 387/213, London Office of this Paper.

MESSRS. EVANS SONS LESCHER & WEBB, Ltd., have a vacancy on their staff for a Medical Representative for Lancashire and the London district. Applicants should have good Pharmaceutical experience, and should be not less than 30 years of age. Royal Liver Building, Liverpool, 3.

REQUIRED for Cosmetic Factory in Dublin, qualified or unqualified Male or Female Chemist with business ability. Apply Northam Warren (I.F.S.) Ltd., 23 Great Ship Street, Dublin.

APPOINTMENTS

RUNWELL EMERGENCY HOSPITAL,
WICKFORD, ESSEX.

Unqualified Assistant required for the Dispensary. Not liable for military service. Salary according to age and experience. Applications, stating age and full details of previous experience together with copies of recent testimonials, to the Medical Superintendent, as soon as possible. CDB/704, London Office of this Paper.

SITUAT

LADY Dispenser, ref experience, wants atory. Good knowledge Office of this Paper.

M.P.S. 37, desires complete pathological e Anywhere. Country. C

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INDOOR or outside ap wholesale drug trad Personally travelled o trade. Reply CDB/713,

REPRESENTATIVE connection, chemi and part Yorks, open t basis. Turnover double of this Paper.

REPRESENTATIVE, Pharmaceuical P and chemists in York Surrey, desires post. G of this Paper.

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WORKS Chemist, exp soaps, perfumes, t requires position. Reply

ADVERTISER (M.P. emergency address wishing to maintain Lo offices and business hou atmospheric). 387/218,

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with view to succession
experienced in Pathology;
limited capital available.
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this Paper.

full-strength Saccharin
Sacch. Lact. dispatched
to be sent to "Tabellae,"

BUSINESSES FOR DISPOSAL

COMPLETE shop Chemist's fittings, mahogany Drugrun,
Wallcase, Dispensing Screen, Counter, Plate Glass, Mirrors,
backed, easily erected. Would include some stock to help
chemist reopen, e.g. Sundries, Toilets or Rare Patents. Details,
Chemist, Quecu's Square, Blackpool.

FOR Sale, as lock-up shop, with stock. Old-established
Pharmacy. Successfully run by lady as drug store for
several years. Reception area, prosperous village. Good scope
for development. CDB/712, London Office of this Paper.

PREMISES TO LET

COMMANDING Premises, Wilton Road, near Victoria Station.
Suitable for Chemist or Toilet-Fancy Goods. War-time
rent. Particulars on application. 387/215, London Office of
this Paper.

COMMANDING Premises, Camberwell New Road, suitable
for Chemist or Toilet-Fancy Goods. War-time rent.
Particulars on application. 387/216, London Office of this
Paper.

BUSINESS OPPORTUNITY

ADVERTISER is prepared to consider purchase of reliable
and proven processes for essential chemical or pharma-
ceutical products. 387/211, London Office of this Paper.

SUBSTITUTE Products—Advertiser wishes communicate
with anyone having a sound substitute product manu-
facturing proposition, of any description, and wishing to start
manufacturing same. Small manufacturing premises, 1,500
sq. ft. available, Epsom, low weekly rental. Advertiser is
prepared to take active working interest in proposed business on
equal financial basis. Randall, 3 College Road, Epsom, Surrey.

FOR SALE

FOR Sale.—In stock, 350 gross of White Teats suitable for
eye-droppers or fountain pen fillers. 386/206, London
Office of this Paper.

LATEX Bottle Teats and Valves, also Soothers for sale.
Quick delivery. Free samples on application. A. & L.
Samuels, 2 Mackenzie Road, Sparkhill, Birmingham, 11.

PADDLE Mixer for disposal, capacity 400 lb., no motor. Good
condition. For further particulars please write 387/209,
London Office of this Paper.

WANTED

CETYL Alcohol, Lanette Wax, required, also small jars
Silver & Co., 17 Woodberry Way, Finchley, London, N.12

OILS or Fats and Glycerine, also Block Stearine wanted.
Box 56, Pool's, Brettenham House, Lancaster Place,
W.C.2.

SULPHONATED Lorol, any quantity; state price. 195
Wardour Street, W.1.

TARTARIC and Citric Acids required up to 5 cwt., or in small
quantities, to complete products in stock. Spot cash. No
delay. CDB/674, London Office of this Paper.

WANTED Permanganate of Potash, Sponges, Loofahs, any
quantity. State condition. United Sponge Co., 41 Royal
Mint Street, London, E.1.

WANTED by England's largest Photographic Dealers. All
Miniature Cameras, extra lenses and accessories, Rolleiflex,
Leica, Contax, Ikontas, etc., also films for Leica, etc. Will buy
quotas. Wallace Heaton, Ltd., 127 New Bond Street, W.1.

WANTED to purchase Menthol Crystals, Japanese preferred.
Good price given. Any quantity. CDB/673, London
Office of this Paper.

WANTED.—Borax: any quantity, large or small; Powdered
or Granular; Pure or Commercial. Offers to CDB/710,
London Office of this Paper.

WE will purchase in or out-of-date AGFACOLOR
Cine and 35-mm. Films—refills or cassettes.
State number, dates and price. We also want
Roll-films, Cine films, film packs, Cameras, Metol,
and Hydrokinone. Cyril Howe, Bath.

Important

Postal and Rail facilities are not so dependable these
days and frequently advertisements have to be held
over consequent on late arrival. Supplement adver-
tisers are therefore asked in their own interests to
co-operate by plainly marking "SMALL ADVERTISE-
MENT" on the top left-hand corner of the envelope.
This will prevent delay and considerably assist our
make-up department.

Advertisements can be received up to first post
WEDNESDAY MORNING of week of issue, if ad-
dressed to THE CHEMIST & DRUGGIST, 28 Essex
Street, Strand, London, W.C.2, or THURSDAY (FIRST
POST) if sent to THE CHEMIST & DRUGGIST, The
Pitman Press, Bath.

LATE NEWS

Belfast Closing Hours.—The closing hours of 7.30 p.m. on
Mondays to Fridays and 9 p.m. on Saturdays (C. & D., August 23,
p. 100) apply to chemists in the Botanic Avenue, Shaftesbury
Square, Donegall Road, Sandy Row, Dublin Road, University
Road, Lisburn Road and Finaghy areas of the City, and not as
stated.

Schedule of Reserved Occupations.—The changes in ages of
reservation at Stage C under the Schedule of Reserved Occupations
and Protected Work will become effective on October 1. Men
de-reserved at this stage will not be required to join their units
before that date, but may be called for medical examination from
the beginning of September. Applications for the deferment of the
calling up of indispensable men employed on work of urgent public
importance who are de-reserved at Stage C should be made not
later than September 6. A copy of the Schedule of Reserved Occu-
pations and Protected Work can be seen at any Ministry of Labour
and National Service Office or can be obtained from H.M. Stationery
Office, price 1s.

Trade Report

ARNICA FLOWERS.—Supplies in first hands are exhausted, and no
quotations are available.

COLCHICUM.—The spot value of Indian, if available, would be in the
region of 3s. per lb.

COLOCYNTH.—Some inquiry is noted for spot material, but supplies are
difficult to find. Holders would require around 3s. 6d. per lb. for fine white.

DAMIANA LEAVES.—Spot supplies are exhausted, and quotations are
nominal. New stocks may be expected towards the end of the year, subject
to import licences being granted and freight being available.

EXTRACT, IPECAC. Liq., B.P., 1932. Less than three winchesters quarts,
26s. per lb.; three or over but less than six winchesters, 25s. 6d.; six
or over but less than twelve winchesters, 25s.; twelve winchesters and
over, 24s. 6d. per lb., net.

GAMBOGE.—Supplies are short, and quotations remain nominal at
approximately £30 per cwt.; there are no shipment offers.

MERPHYL SALICYLATE.—Steady at makers' rates: Five cwt., 1s. 8½d.
per lb.; one cwt., 1s. 9d.; smaller quantities, in bottles, 1s. 11d. per lb.

PHENACETIN.—Dealers' prices are firm at about 10s. 6d. to 12s. per lb.
Makers' prices are unchanged.

PHENAZONE.—Dealers' prices are firm at from 18s. upwards per lb.,
according to quantity.

PIMENTO.—Quiet. Sellers offer spot material at the unchanged price
of 2s. 1½d. per lb.; new crop, for August-September shipment, 170s. per
cwt., c.i.f., sellers.

PYRETHRUM.—Kenya flowers are quoted by dealers at about 175s. to
185s. per cwt., ex store. It is understood that prices to importers of large
quantities would be at appropriately lower figures.

QUASSIA CHIPS.—Dealers' prices for small supplies would be in the
region of 42s. 6d. per cwt., ex store.

STRAMONIUM LEAVES.—Dealers would require about 105s. per cwt. for
spot supplies of Indian leaves.

TAMARINDS.—In quiet demand, with West Indian quoted on spot at
about 57s. 6d. per cwt., duty paid, ex store.

ARE YOU UNEMPLOYED AS A DIRECT RESULT OF THE WAR ? IF SO, READ THIS

In order to assist employees who have lost their employment, either through enemy action or through businesses being closed down in defence areas, a scheme of free advertisements in the "Situations Wanted" column of this Supplement will be available until further notice.

Any such employee of a retail pharmacist, whether qualified or not, or any employee of works producing or distributing products in connexion with the drug and associated industries is invited to make full use of this facility without charge.

Advertisements should be accompanied by particulars of lost employment and cause of its termination, and should be addressed to The Publisher, The Chemist and Druggist, The Pitman Press, Bath, to arrive not later than WEDNESDAY morning of week of issue.

WAR-TIME UNEMPLOYMENT SITUATIONS WANTED

The advertisements in this section are inserted free and are from advertisers who have lost their employment as a direct result of the war. Prospective employers are requested to give them special consideration.

Advertisers in this Section should advise us immediately employment has been secured.

RETAIL

DISPENSER-Secretary, Hall qualification; thoroughly experienced, seeks appointment, Hospital, Doctors, or Chemists. CDB/675, London Office of this Paper.

UNQUALIFIED. With long and varied experience. Over military age. Disengaged solely through war conditions. Seeks management of Drug Stores. CDB/691, London Office of this Paper.

WHOLESALE

REPRESENTATIVE with outstanding connexion in N. Ireland and part Eire seeks re-engagement on direct or agency terms. Energetic worker. Car owner. First-class reference. CDB/657, London Office of this Paper.

REPRESENTATIVE, over military age, disengaged owing to Limitation of Supplies; has represented a photographic camera and film manufacturer for the past 21 years, and has an intimate connexion among Chemists in Essex, the Midlands, and a large extent of territory covering Worcestershire and Warwickshire. Own private car and clean licence. Resident Clacton-on-Sea. CDB/673, London Office of this Paper.

PARTNERSHIP

PARTNERSHIP. St. Albans. Qualified Chemist (elderly) as Partner, for converting Drug Stores into Chemist's Pharmacy; good-class district. Owner in H.M. Forces. Turn-over, April, 1940, to April, 1941, over £1000; established 2½ years; rent £125. Excellent scope for doing full N.H.I., etc. No opposition whatsoever. Apply, CDB/692, London Office of this Paper.

SPECIAL NOTICE TO SUBSCRIBERS

Under present conditions it is not possible to follow our usual procedure of sending a series of reminders about subscription renewals, nor continue the posting of copies after a subscription has expired, owing to the necessity of conserving paper supplies. For the same reason we cannot supply back numbers after postings have once ceased.

We hope therefore that our friends will co-operate by sending renewal instructions and remittance as soon as due, addressed to

The Chemist and Druggist, The Pitman Press
Bath, Somerset

N.B.—Changes in name or address or any alteration of any kind in the current mailing list should be sent seven days in advance of the issue which they are to affect.

You need
the

C. & D.

PURCHASE TAX READY RECKONER

It simplifies transactions, saves valuable time and eliminates possibility of errors.

It gives at a glance the amount of purchase tax to be added to the Retail Sales price of goods

- (a) Bought and sold by weight.
- (b) Bought and sold in numbers.

In handy form for Counter use.

1 copy	7d. post free
3 copies	1/8 " "
6 " "	3/- " "
12 " "	5/6 " "

Special quotations for larger quantities.

Remittance should accompany orders to

THE CHEMIST & DRUGGIST
The Pitman Press, BATH

CHEMIST & DRUGGIST

WAR-TIME TRADE GUIDE

This 8-page guide, published in the CHEMIST & DRUGGIST, January 25, 1941, comprises a comprehensive alphabetical list of pharmaceutical products, drugs, toilet preparations, cosmetics, druggists' sundries, etc., handled by the retail pharmacist.

Against each item is indicated the War-time Trade Restriction control or tax and the amount of tax it is subject to.

Manufacturers, Wholesalers and Retailers thus have available, in a clear and concise form, all the essential information regarding current trading conditions. Reprints are available at the following post free prices.

1 copy	7d.	12 copies	5/6
3 copies	1/8	25 copies	10/6
6 copies	3/-	50 copies	20/-

Remittances should be sent with orders to

THE CHEMIST & DRUGGIST
The Pitman Press, Bath

RECENT DEVELOPMENTS IN THERAPEUTICS

By

F. PRESCOTT, M.Sc., Ph.D., A.I.C., M.R.C.S., L.R.C.P.

Reprints of this important series of 12 articles, published in the "Chemist and Druggist" during recent months, are now available.

Every pharmacist should possess a copy and thus keep abreast with modern medical practice.

The reprints occupy 16 pp. and will be sent post free at the following rates:—

1 set reprints	1/-
6 sets reprints	5/-
12 " "	8/-
36 " "	21/-

Special quotations for larger quantities.

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The Pitman Press, BATH

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